CLASS 442, FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)

SECTION I - CLASS DEFINITION

This is the class for woven, knitted, nonwoven, or felt article claimed as a fabric, having structural integrity resulting from forced interassociation of fibers, filaments, or strands, the forced interassociation resulting from processes such as weaving, knitting, needling hydroentangling, chemical coating or impregnation, autogenous bonding (i.e., heat- and/or pressure-promoted welding or solvent bonding) or felting, but not articles such as paper, fiber-reinforced plastic matrix materials (FRP), or other fiber-reinforced materials wherein fibers are present only as a filler material.

SECTION II - LINES WITH OTHER CLASSES AND WITHIN THIS CLASS

This class is an integral part of Class 428 (after subclass 223). It incorporates all the definitions and rules as to subject matter of Class 428.

This is not the location for a woven or knitted fabric which is no more than, respectively, the product of a loom or knitting machine which has not been further treated. Such a product of a loom is classified in Class 139, subclasses 420+. Such a product from a knitting machine is classified in Class 66, subclasses 169+.

This is the location for a woven or knitted fabric which has been subjected to further treatment after having been removed, respectively, from the loom or knitting machine, and all treated and untreated nonwoven fabrics, except those treated by a drying process or a chemical modification which effects chemical reaction within the material composing the woven, knitted, or nonwoven fabric. A fabric which has been dyed or subjected to chemical modification effecting reaction within the material composing the fabric is classified in Class 8, except where the chemical modification results in converting the material composing the fabric to carbon. Carbon fabrics, per se, are classified in Class 423, subclasses 447.1+.

This is not the location for nonwoven sheets produced by wet-laying fiber slurries on a screen (i.e., papers). Papers, per se, are classified in Class 162, subclasses 100+.

Fiber-reinforced plastic matrix materials (FRP) or fiber-reinforced inorganic matrix materials, per se, are classified in Class 428, subclasses 292.1+.

SUBCLASSES

1 SCRIM (E.G., OPEN NET OR MESH, GAUZE, LOOSE OR OPEN WEAVE OR KNIT, ETC.):
This subclass is indented under the class definition. Subject matter wherein the fabric is a woven, nonwoven, or knitted fabric which is specifically described as having an open or loose configuration of strands or filamentary material.

(1) Note. Scrim includes but is not limited to open net, mesh, gauze, loosely woven, or knitted fabrics. A characteristic of most scrims is the ability to see readily through the fabric from a distance.

2 Woven scrim:
This subclass is indented under subclass 1. Subject matter wherein the scrim is a woven fabric.

(1) Note. A woven fabric is composed of at least one set of strands or strips in a warp direction interengaged with at least one set of strands or strips in a fill or weft direction, the fill or weft direction being at an angle other than 0° relative to the warp direction.

SEE OR SEARCH THIS CLASS, SUBCLASS: 181+, for woven fabrics not meeting the definition of scrim as given above.

3 Including a multifilament fiber precoated with other than free metal or alloy prior to weaving:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains a multifilament fiber which has been coated with a non-metallic material prior to incorporation into the woven scrim.

4 Comprising a composite fiber:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains at least one fiber comprising more than
one chemically distinct component such as a sheath/core fiber, an islands-in-sea fiber, a wrapped fiber, etc.

5 Comprising at least two chemically different fibers:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains two or more distinct fibers which differ from one another chemically.

6 Metal or metal-coated fiber-containing scrim:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains metal fiber or metal-coated fiber.

7 Including an additional free metal or alloy constituent:
This subclass is indented under subclass 6. Subject matter wherein the additional free metal or alloy constituent is in the form of particulate material.

8 Particulate free metal or alloy constituent:
This subclass is indented under subclass 7. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has an open or closed cellular layer associated therewith.

9 Including a foam layer:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a foam layer.

10 Including a woven fabric which is not a scrim:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber is associated with at least one additional woven fabric which is not a scrim.

11 Including a nonwoven fabric which is not a scrim:
This subclass is indented under subclass 10. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a woven fabric and a nonwoven fabric which is not a scrim associated therewith.

12 Including a paper layer:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a paper layer associated therewith.

13 Including a nonwoven fabric which is not a scrim:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a nonwoven fabric which is not a scrim associated therewith.

14 Two or more nonwoven fabric layers:
This subclass is indented under subclass 13. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has two or more nonwoven fabric layers which are not scrim associated therewith.

15 Including a natural or synthetic rubber layer:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a natural or synthetic rubber layer associated therewith.

16 Including a preformed film, foil, or sheet:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim containing metal fiber or metal-coated fiber has a preformed material associated herewith, the preformed material having structural integrity prior to association with the woven scrim and being in the form of a film, foil, or sheet.

17 Including a layer derived from a water-settable material (e.g., cement, gypsum, etc.):
This subclass is indented under subclass 6. Subject matter wherein the woven scrim which contains metal or metal-coated fiber has a water-settable material (e.g., cement, gypsum, etc.) in the form of a distinct layer associated therewith.

18 Including a ceramic or glass layer:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim which contains metal or metal-coated fiber has at least one additional layer in the form of ceramic or glass associated therewith.
19 Including a coating or impregnation of synthetic polymeric material:
This subclass is indented under subclass 6. Subject matter wherein the woven scrim which contains metal or metal-coated fiber has at least one synthetic polymeric coating or impregnation associated therewith.

20 Inorganic fiber-containing scrim:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim comprises inorganic fiber.

21 Including a carbon or carbonized fiber:
This subclass is indented under subclass 20. Subject matter wherein the inorganic fiber comprises a carbon (graphite) or fiber material which has been subjected to carbonization.

22 Including a foam layer:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim comprises inorganic fiber which has an open or closed cellular layer associated therewith.

23 Including a metal layer:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim comprises inorganic fiber which has a metal layer associated therewith.

24 Including an additional scrim layer:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber has at least one additional scrim layer associated therewith.

25 Including a woven fabric which is not a scrim:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber is associated with an additional woven fabric which is not a scrim.

26 Including a nonwoven fabric which is not a scrim:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber has at least one nonwoven fabric which is not a scrim associated therewith.

27 Including a preformed film, foil, or sheet:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber has a preformed material associated therewith, the preformed material having had structural integrity prior to association with the woven scrim and being in the form of a film, foil, or sheet.

28 Including a mica layer:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber has a mica layer associated therewith.

29 Including a coating or impregnation containing particulate material other than fiber:
This subclass is indented under subclass 20. Subject matter wherein the woven scrim which comprises inorganic fiber has a coating or impregnation which contains nonfibrous particulate material associated therewith.

30 Including a foam layer:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has at least one additional layer which is an open or closed cellular layer associated therewith.

31 Including a free metal or alloy constituent:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains a free metal or alloy constituent.

32 Including an additional scrim layer:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains an additional scrim layer associated therewith.

33 Including a paper layer:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has an additional paper layer associated therewith.

34 Two or more paper layers:
This subclass is indented under subclass 33. Subject matter wherein the woven scrim has at least two paper layers associated therewith.
35 Including a nonwoven fabric which is not a scrim:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has a nonwoven fabric layer which is not a scrim associated therewith.

36 Two or more nonwoven layers:
This subclass is indented under subclass 35. Subject matter wherein the woven scrim has two or more nonwoven fabric layers (which are not scrim) associated therewith.

37 Including a natural or synthetic rubber layer:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has a natural or synthetic rubber layer associated therewith.

38 Including a preformed film, foil, or sheet:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has a preformed material having had structural integrity prior to association with the woven scrim and being in the form of a film, foil, or sheet.

39 Cellulose acetate film or sheet:
This subclass is indented under subclass 38. Subject matter wherein the preformed film or sheet is cellulose acetate.

40 Fluorinated polyolefin film or sheet:
This subclass is indented under subclass 38. Subject matter wherein the preformed film or sheet is fluorinated polyolefin.

41 Polyolefin film or sheet:
This subclass is indented under subclass 38. Subject matter wherein the preformed film or sheet is polyolefin.

42 Including a layer derived from a water-settable material (e.g., cement, gypsum, etc.):
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has a water-settable material (e.g., cement, gypsum, etc.) in the form of a distinct layer associated therewith.

43 Coated or impregnated:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim has a coating or impregnation associated therewith.

44 Including particulate material other than fiber in coating or impregnation:
This subclass is indented under subclass 43. Subject matter wherein the coating or impregnation contains particulate material not being fibrous.

45 Three or more layers:
This subclass is indented under subclass 43. Subject matter comprising at least three layers including a woven scrim layer and at least one coating and/or impregnation layer.

46 Synthetic polymeric fiber:
This subclass is indented under subclass 43. Subject matter wherein the coated or impregnated woven scrim contains synthetic polymeric fiber.

47 Nylon fiber:
This subclass is indented under subclass 46. Subject matter wherein the synthetic polymeric fiber is nylon (i.e., polyamide).

48 Bitumen coating or impregnation:
This subclass is indented under subclass 43. Subject matter wherein the coating or impregnation contains pitch, asphalt, tar, bitumen, or the residue from the distillation of mineral oil and/or coal.

49 Synthetic polymeric fiber:
This subclass is indented under subclass 2. Subject matter wherein the woven scrim contains synthetic polymeric fiber.

50 Nonwoven scrim:
This subclass is indented under subclass 1. Subject matter wherein the scrim is a nonwoven fabric.

(1) Note. A nonwoven fabric is composed of strands or fiber material having structural integrity by forced interassociation of the strands or fiber material by mechanical means (e.g., needling, hydroentanglement, etc.) or by the effect of chemical binders or by autogenous
bonding (i.e., heat- and/or pressure-promoted welding or solvent bonding).

SEE OR SEARCH THIS CLASS, SUB-CLASS:
327+, for nonwoven fabric not meeting the definition of scrim as given above.

51 Comprising a composite fiber:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim comprises fiber containing more than one chemically distinct component such as a sheath/core fiber, an islands-in-sea fiber, a wrapped fiber, etc.

52 Metal or metal-coated fiber-containing scrim:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim comprises metal fiber or metal-coated fiber.

53 Including a paper layer:
This subclass is indented under subclass 52. Subject matter wherein the nonwoven scrim comprising metal fiber or metal-coated fiber has one additional paper layer associated therewith.

54 Inorganic fiber-containing scrim:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim comprises inorganic fiber.

55 Including a foam layer:
This subclass is indented under subclass 54. Subject matter wherein the nonwoven scrim which comprises inorganic fiber has a foam layer associated therewith.

56 Including a foam layer:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim has an open or closed cellular layer associated therewith.

57 Including a nonwoven fabric which is not a scrim:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim has a nonwoven fabric layer which is not a scrim associated therewith.

58 Coated or impregnated:
This subclass is indented under subclass 50. Subject matter wherein the nonwoven scrim has a coating or impregnation associated therewith.

59 COATED OR IMPREGNATED WOVEN, KNIT, OR NONWOVEN FABRIC WHICH IS NOT (A) ASSOCIATED WITH ANOTHER PREFORMED LAYER OR FIBER LAYER OR (B) WITH RESPECT TO WOVEN AND KNIT, CHARACTERIZED, RESPECTIVELY, BY A PARTICULAR OR DIFFERENTIAL WEAVE OR KNIT, WHEREIN THE COATING OR IMPREGNATION IS NEITHER A FOAMED MATERIAL NOR A FREE METAL OR ALLOY LAYER:
This subclass is indented under the class definition. Subject matter wherein the fabric is coated or impregnated with a material which is neither a foamed material nor a metal or alloy layer, which is not associated with any other preformed layer other than additional coatings or impregnations, and which is not characterized by a particular or differential weave or knit pattern.

60 Fabric composed of a fiber or strand which is of specific structural definition:
This subclass is indented under subclass 59. Subject matter wherein the fabric comprises (a) strands having specific structural characteristics such as being composed of individual filaments having different chemical composition twisted together or being core-spun about a non-elastic core; or (b) the strands, per se, or individual filamentary materials comprising the strands are characterized by a specific structural feature such as nonlinearity, a particular cross section or a particular absolute size of any feature, component or dimension (e.g., length, width, or thickness).

61 Impregnation is confined to a plane disposed between both major fabric surfaces which are essentially free of impregnating material:
This subclass is indented under subclass 59. Subject matter wherein the fabric is impregnated in such a way as to restrict the impregnant to a location between both major fabric
surfaces, both major fabric surfaces being essentially free of impregnant.

62 Coating produced by extrusion:
This subclass is indented under subclass 59. Subject matter wherein the coating has been associated with the fabric by extrusion coating.

63 Coating or impregnation formed in situ (e.g., by interfacial condensation, coagulation, precipitation, etc.):
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is formed by an in situ process on a surface of the fabric, the process being one such as interfacial condensation, coagulation, precipitation, etc.

64 Two or more non-extruded coatings or impregnations:
This subclass is indented under subclass 59. Subject matter wherein the fabric has at least two coatings or impregnations, no coating or impregnation having been produced by extrusion.

65 Each major face of the fabric has at least one coating or impregnation:
This subclass is indented under subclass 64. Subject matter wherein each major face of the fabric has one or more coatings or impregnations.

66 At least two coatings or impregnations of different chemical composition:
This subclass is indented under subclass 65. Subject matter wherein the fabric has two or more chemically different coatings or impregnations.

67 Different coatings or impregnations on opposite faces of the fabric:
This subclass is indented under subclass 66. Subject matter wherein each face of the fabric has at least one coating or impregnation that is chemically different from at least one coating or impregnation on the opposite face of the fabric.

68 At least one coating or impregnation contains particulate material:
This subclass is indented under subclass 66. Subject matter wherein at least one coating or impregnation includes particulate material.

69 At least one coating or impregnation functions to fix pigments or particles on the surface of a coating or impregnation:
This subclass is indented under subclass 68. Subject matter wherein at least one coating or impregnation has pigments or particles on its surface.

70 At least one coating or impregnation contains particulate material:
This subclass is indented under subclass 65. Subject matter wherein at least one coating or impregnation includes particulate material.

71 At least two coatings or impregnations of different chemical composition:
This subclass is indented under subclass 64. Subject matter wherein the fabric has at least two coatings or impregnations which are chemically different.

72 At least one coating or impregnation contains particulate material:
This subclass is indented under subclass 71. Subject matter wherein at least one coating or impregnation includes particulate material.

73 At least one coating or impregnation functions to fix pigments or particles on the surface of a coating or impregnation:
This subclass is indented under subclass 72. Subject matter wherein at least one coating or impregnation has pigments or particles on its surface.

74 At least one coating or impregnation contains particulate material:
This subclass is indented under subclass 64. Subject matter wherein at least one coating or impregnation includes particulate material.

75 At least one coating or impregnation functions to fix pigments or particles on the surface of a coating or impregnation:
This subclass is indented under subclass 74. Subject matter wherein at least one coating or impregnation has pigments or particles on its surface.
76 Coating or impregnation specified as porous or permeable to a specific substance (e.g., water vapor, air, etc.):
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is porous or permeable to water vapor, air, or some other specific substance, the porosity or permeability being specifically stated.

77 Coating or impregnation is specified as microporous but is not a foam:
This subclass is indented under subclass 76. Subject matter wherein the coating or impregnation is not a foam but is microporous, the porosity being specifically stated.

78 Coating or impregnation collects radionuclide or heavy metal:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation collects or binds radionuclides or heavy metals.

79 Coating or impregnation specified as water repellent:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is water repellent, the water repellency being specifically stated.

80 Also specified as oil repellent:
This subclass is indented under subclass 79. Subject matter wherein the coating or impregnation is also oil repellent, the oil repellency being specifically stated.

81 Organosilicon containing:
This subclass is indented under subclass 79. Subject matter wherein the coating or impregnation includes organosilicon.

82 Fluorocarbon containing:
This subclass is indented under subclass 79. Subject matter wherein the coating or impregnation includes fluorocarbon.

83 Nitrogen containing:
This subclass is indented under subclass 79. Subject matter wherein the coating or impregnation includes nitrogen.

84 Natural oil or wax containing:
This subclass is indented under subclass 79. Subject matter wherein the coating or impregnation includes natural oil or wax.

85 Coating or impregnation is specified as weather proof, water vapor resistant, or moisture resistant:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is weather proof, water vapor resistant, or moisture resistant, the weather proofness or water vapor resistance or moisture resistance being specifically stated.

86 Coating or impregnation is specified as water proof:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is water proof, the water proofness being specifically stated.

87 Organosilicon containing:
This subclass is indented under subclass 86. Subject matter wherein the coating or impregnation includes organosilicon.

88 Fluorocarbon containing:
This subclass is indented under subclass 86. Subject matter wherein the coating or impregnation includes fluorocarbon.

89 Nitrogen containing:
This subclass is indented under subclass 86. Subject matter wherein the coating or impregnation includes nitrogen.

90 Natural oil or wax containing:
This subclass is indented under subclass 86. Subject matter wherein the coating or impregnation includes natural oil or wax.

91 Coating or impregnation is oil repellent but not oil or stain release:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is oil repellent but not oil or stain release, the oil repellency being specifically stated.
92 Fluorocarbon containing:
This subclass is indented under subclass 91. Subject matter wherein the coating or impregnation includes fluorocarbon.

93 Coating or impregnation improves soil repellency, soil release, or anti-soil redeposition qualities of fabric:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation improves qualities of fabric such as soil repellency, soil release, or anti-soil redeposition, the improvement being specifically stated.

94 Fluorocarbon containing:
This subclass is indented under subclass 93. Subject matter wherein the coating or impregnation includes fluorocarbon.

95 Linear polyether group chain containing:
This subclass is indented under subclass 93. Subject matter wherein the coating or impregnation includes a linear polyether group chain.

96 Coating or impregnation provides a fragrance or releases an odor intended to be perceptible to humans:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation provides a fragrance or releases an odor which is noticeable to humans.

97 Coating or impregnation is a lubricant or a surface friction reducing agent other than specified as improving the “hand” of the fabric or increasing the softness thereof:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation which is not specified as improving the “hand” or increasing the softness of the fabric acts as a lubricant or a surface friction reducing agent.

101 Coating or impregnation is antislip or friction-increasing other than specified as an abrasive:
This subclass is indented under subclass 59. Subject wherein the coating or impregnation has antislip or friction-increasing properties, the properties being specifically stated, and is not referred to as abrasive.

102 Coating or impregnation functions to soften the feel of or improve the “hand” of the fabric:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation softens the feel of or improves the “hand” of the fabric, the softening or “hand” improvement being specifically stated.

103 Coating or impregnation improves stiffness of the fabric other than specified as a size:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to improve fabric stiffness, the coating not being a size.

SEE OR SEARCH THIS CLASS, SUBCLASS:
108, for a coating or impregnation which is specified as a size.

104 Coating or impregnation improves elasticity, bendability, resiliency, flexibility, or shape retention of the fabric:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to improve fabric elasticity, bendability, resiliency, flexibility, or shape retention.
105 Improves elasticity:
This subclass is indented under subclass 104. Subject matter wherein the coating or impregnation is specifically stated to improve fabric elasticity.

106 Improves shrink resistance:
This subclass is indented under subclass 104. Subject matter wherein the coating or impregnation is specifically stated to improve fabric shrink resistance.

107 Coating or impregnation provides crease-resistance or wash and wear characteristics:
This subclass is indented under subclass 104. Subject matter wherein the coating or impregnation is specifically stated to improve fabric crease-resistance or wash and wear characteristics.

108 Coating or impregnation specified as a size:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to be a size or sizing material.

109 Coating or impregnation improves snag or pull resistance of the fabric:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to improve fabric snag or pull resistance.

110 Coating or impregnation increases electrical conductivity or antistatic quality:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to increase fabric electrical conductivity or antistatic quality.

111 Elemental carbon containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation comprises elemental carbon.

112 Linear polyether group chain containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation comprises a linear polyether group chain.

113 Nitrogen and phosphorus containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation comprises nitrogen and phosphorus.

114 Phosphorus containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation contains phosphorus.

115 Nitrogen containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation comprises nitrogen.

116 Sulphur containing:
This subclass is indented under subclass 110. Subject matter wherein the coating or impregnation comprises sulphur.

117 Coating or impregnation is electrical insulation-providing, -improving, or -increasing or conductivity-reducing:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to provide, improve, or increase fabric electrical insulating or reduce fabric conductivity.

118 Coating or impregnation is water absorbency-increasing or hydrophilicity-increasing or hydrophilicity-imparting:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to increase fabric or impart to the fabric water absorbency or hydrophilicity.

119 Polyether group containing:
This subclass is indented under subclass 118. Subject matter wherein the coating or impregnation comprises a polyether group.

120 Coating or impregnation absorbs sound:
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to absorb sound.
121 Coating or impregnation absorbs chemical material other than water:
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to absorb chemical material (e.g., heavy metal, etc., but not water).

122 Chemical material is one used in biological or chemical warfare:
   This subclass is indented under subclass 121. Subject matter wherein the coating or impregnation is specifically stated to be used in biological or chemical warfare.

123 Coating or impregnation functions biologically (e.g., insect repellent, antiseptic, insecticide, bactericide, etc.):
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to function biologically, including functioning as an insect repellent, antiseptic, insecticide, bactericide, etc.

124 Inhibits mildew:
   This subclass is indented under subclass 123. Subject matter wherein the coating or impregnation is specifically stated to inhibit the growth of mildew.

125 Insect repellent:
   This subclass is indented under subclass 123. Subject matter wherein the coating or impregnation is specifically stated to be an insect repellent.

126 Coating or impregnation is chemically inert or of stated nonreactance:
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to be chemically inert or nonreactant.

127 Oxygen or ozone resistant:
   This subclass is indented under subclass 126. Subject matter wherein the coating or impregnation is specifically stated to be resistant to oxygen or ozone.

128 Organic solvent resistant (e.g., dry cleaning fluid, etc.):
   This subclass is indented under subclass 126. Subject matter wherein the coating or impregnation is specifically stated to be resistant to organic solvents such as dry cleaning fluid.

129 Acid or alkali resistant:
   This subclass is indented under subclass 126. Subject matter wherein the coating or impregnation is specifically stated to be resistant to acid or alkali.

130 Coating or impregnation contains an optical bleach or brightener or functions as an optical bleach or brightener (e.g., it masks fabric yellowing, etc.):
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to contain an optical bleach or brightener, act as an optical bleach or brightener, or mask fabric yellowing.

131 Coating or impregnation provides protection from radiation (e.g., U.V., visible light, I.R., microwave, high energy particle, etc.) or heat-retention thru radiation absorption:
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to provide protection from radiation or absorption of radiation, the radiation being U.V., visible light, I.R., microwave, high energy particle, etc.

132 Radiation reflective:
   This subclass is indented under subclass 131. Subject matter wherein the coating or impregnation is specifically stated to reflect radiation.

133 Radiation absorptive:
   This subclass is indented under subclass 131. Subject matter wherein the coating or impregnation is specifically stated to absorb radiation.

134 Coating or impregnation is resistant to penetration by solid implements:
   This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to resist penetration by solid implements such as bullets, knives, etc.
135  **Ballistic resistant:**
This subclass is indented under subclass 134. Subject matter wherein the coating or impregnation is specifically stated to resist penetration by projectiles.

136  **Coating or impregnation provides heat or fire protection:**
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to provide protection from heat or fire.

137  **Coated or impregnated asbestos fabric:**
This subclass is indented under subclass 136. Subject matter wherein the fabric comprises an asbestos fabric.

138  **Coating or impregnation is specified as an intumescent material:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation is specifically stated to be an intumescent material.

(1)  Note. An intumescent material comprises a material which swells, enlarges, or expands upon application of moisture or heat.

139  **Antimony containing:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation comprises antimony.

140  **Boron containing:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation comprises boron.

141  **Phosphorus containing:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation comprises phosphorus.

142  **Phosphorus and nitrogen containing compound:**
This subclass is indented under subclass 141. Subject matter wherein the coating or impregnation contains a compound which comprises phosphorus and nitrogen.

143  A phosphorus containing compound and a nitrogen containing compound:
This subclass is indented under subclass 141. Subject matter wherein the coating or impregnation contains a compound comprising phosphorus and a compound comprising nitrogen.

144  **Phosphorus and halogen containing compound:**
This subclass is indented under subclass 141. Subject matter wherein the coating or impregnation contains a compound comprising phosphorus and halogen.

145  A phosphorus containing compound and a halogen containing compound:
This subclass is indented under subclass 141. Subject matter wherein the coating or impregnation contains a compound comprising phosphorus and a compound comprising halogen.

146  **Halogen containing:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation comprises halogen.

147  **Nitrogen containing:**
This subclass is indented under subclass 136. Subject matter wherein the coating or impregnation comprises nitrogen.

148  **Coating or impregnation provides wear or abrasion resistance:**
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation is specifically stated to resist wear or abrasion.

149  **Coating or impregnation intended to function as an adhesive to solid surfaces subsequently associated therewith:**
This subclass is indented under subclass 59. Subject matter wherein the coating or impregnation functions as an adhesive, the adhesive being used to adhere at least one solid surface subsequently associated with the coated or impregnated fabric.

150  **Heat-activatable adhesive:**
This subclass is indented under subclass 149. Subject matter wherein the coating or impregnation is an adhesive which is heat activatable.
151 **Pressure-sensitive adhesive:**
This subclass is indented under subclass 149. Subject matter wherein the coating or impregnation is an adhesive which is pressure sensitive.

152 **Coated or impregnated natural fiber fabric (e.g., cotton, wool, silk, linen, etc.):**
This subclass is indented under subclass 59. Subject matter wherein the fabric comprises a naturally occurring fiber such as cotton wool, silk, linen, etc.

153 **Coated or impregnated cellulosic fiber fabric:**
This subclass is indented under subclass 152. Subject matter wherein the naturally occurring fiber comprises cellulosic fiber.

154 **Coating or impregnation contains an acrylic polymer or copolymer (e.g., polyacrylonitrile, polyacrylic acid, etc.):**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises an acrylic polymer or copolymer such as polyacrylonitrile, polyacrylic acid, etc.

155 **Coating or impregnation contains a vinyl polymer or copolymer:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises a vinyl polymer or copolymer.

156 **Coating or impregnation contains an epoxy polymer or copolymer or polyether:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises a polyether or an epoxy polymer or copolymer.

157 **Polymeric coating or impregnation from a silane or siloxane not specified as lubricant or water repellent:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises a silane or siloxane polymer, the polymer not being a lubricant or water repellent.

158 **Coating or impregnation contains polyimide or polyamide:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises polyimide or polyamide.

159 **Coating or impregnation contains natural gum, rosin, natural oil, or wax:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises natural gum, rosin, natural oil, or wax.

160 **Coating or impregnation contains aldehyde or ketone condensation product:**
This subclass is indented under subclass 153. Subject matter wherein the coating or impregnation comprises a product resulting from the condensation of an aldehyde or a ketone.

161 **Phenol-aldehyde condensate:**
This subclass is indented under subclass 160. Subject matter wherein the condensation product comprises a phenol-aldehyde condensate.

162 **Melamine-aldehyde condensate:**
This subclass is indented under subclass 160. Subject matter wherein the condensation product comprises a melamine-aldehyde condensate.

163 **Amide-aldehyde condensate (e.g., modified urea-aldehyde condensate, etc.):**
This subclass is indented under subclass 160. Subject matter wherein the condensation product comprises an amide-aldehyde condensate such as modified urea-aldehyde condensate.

164 **Coated or impregnated synthetic organic fiber fabric:**
This subclass is indented under subclass 59. Subject matter wherein the fabric comprises synthetic organic fiber.

165 **Coated or impregnated regenerated cellulose fiber comprises synthetic organic fiber fabric:**
This subclass is indented under subclass 164. Subject matter wherein the synthetic organic fiber is a regenerated cellulose fiber.
166 Coated or impregnated polyvinyl alcohol fiber fabric:
This subclass is indented under subclass 164. Subject matter wherein the synthetic organic fiber is a polyvinyl alcohol fiber.

167 Coated or impregnated acrylic fiber fabric:
This subclass is indented under subclass 164. Subject matter wherein the synthetic organic fiber is an acrylic fiber.

168 Coated or impregnated polyamide fiber fabric:
This subclass is indented under subclass 164. Subject matter wherein the synthetic organic fiber is a polyamide fiber.

169 Aromatic polyamide fiber fabric:
This subclass is indented under subclass 168. Subject matter wherein the polyamide fiber is an aromatic polyamide fiber.

170 Coated or impregnated polyolefin fiber fabric:
This subclass is indented under subclass 164. Subject matter wherein the synthetic organic fiber is a polyolefin fiber.

171 Polypropylene fiber fabric:
This subclass is indented under subclass 170. Subject matter wherein the polyolefin fiber is a polypropylene fiber.

172 Coated or impregnated inorganic fiber fabric:
This subclass is indented under subclass 59. Subject matter wherein the fabric comprises an inorganic fiber.

173 Coating or impregnation contains vinyl polymer or copolymer:
This subclass is indented under subclass 172. Subject matter wherein the coating or impregnation comprises vinyl polymer or copolymer.

174 Vinyl acetate polymer or copolymer:
This subclass is indented under subclass 173. Subject matter wherein the vinyl polymer or copolymer comprises a vinyl acetate polymer or copolymer.

175 Coating or impregnation contains epoxy polymer or copolymer or polyether:
This subclass is indented under subclass 172. Subject matter wherein the coating or impregnation comprises a polyether or an epoxy polymer or copolymer.

176 Coating or impregnation contains aldehyde or ketone condensation product:
This subclass is indented under subclass 172. Subject matter wherein the coating or impregnation comprises a product resulting from the condensation of an aldehyde or a ketone.

177 Amide-aldehyde condensate:
This subclass is indented under subclass 176. Subject matter wherein the condensation product comprises an amide-aldehyde condensate.

178 Coated or impregnated ceramic fiber fabric:
This subclass is indented under subclass 172. Subject matter wherein the inorganic fiber is a ceramic fiber.

179 Coated or impregnated carbon or carbonaceous fiber fabric:
This subclass is indented under subclass 172. Subject matter wherein the inorganic fiber is a carbon (graphite) or carbonaceous fiber.

180 Coated or impregnated glass fiber fabric:
This subclass is indented under subclass 172. Subject matter wherein the inorganic fiber is a glass fiber.

181 WOVEN FABRIC (I.E., WOVEN STRAND OR STRIP MATERIAL):
This subclass is indented under the class definition. Subject matter wherein the fabric is a woven fabric composed of at least one set of strands or strips in a warp direction interengaged with at least one set of strands or strips in a fill or weft direction, the fill or weft direction being at an angle other than 0° relative to the warp direction.

See or search class:
139, Textiles: Weaving, subclass 383 for woven fabrics made solely by a weaving process without any other fabric processing prior to or following weaving.
428, Stock Material or Miscellaneous Articles, subclasses 34.1+ for hollow or container type articles (e.g., tube, vase, etc.) containing at least one woven fabric; subclasses 105+ for woven fabrics wherein strands or strips thereof are disposed in angular relation to strands or strips in a second layer or component; subclass 114 for woven fabrics wherein strands or strips thereof are arranged in parallel relation to strands or strips in a second layer or component; subclasses 175+ for a product of uniform thickness but of nonplanar characteristics and comprising interengaged strands or strips; and subclass 196 for woven fabrics with a discontinuous coating, impregnation, or bond.

SEE OR SEARCH THIS CLASS, SUB-CLASS:
190, and 191, for fabric composed of a non-elastomeric core-spun strand.

SEE OR SEARCH CLASS:
57, Textiles: Spinning, Twisting, and Twining, subclass 225 and 226 for elastomeric core-spun yarns, per se.

185 Including a strip or ribbon:
This subclass is indented under subclass 181. Subject matter wherein a strip or ribbon has been woven into the fabric.

(1) Note. A strip or ribbon is an elongated element having a width which substantially exceeds its thickness.

186 Woven fabric comprises strips or ribbons only:
This subclass is indented under subclass 185. Subject matter wherein the fabric is woven solely from ribbons or strips (i.e., does not contain woven strands or yarns).

187 Including strand precoated with other than free metal or alloy:
This subclass is indented under subclass 181. Subject matter comprising a strand which has been coated with a non-metallic material prior to incorporation into the woven fabric.

188 Multiple coatings:
This subclass is indented under subclass 187. Subject matter wherein the strand had been subjected to more than one coating prior to weaving.

189 Including strand which is of specific structural definition:
This subclass is indented under subclass 181. Subject matter wherein the fabric comprises (a) strands having a specific structural characteristics such as being composed of individual filaments having different chemical composition twisted together or being core-spun about a non-elastic core or (b) the strands, per se, or individual filamentary materials comprising the strands are characterized by a specific structural feature such as nonlinearity, a particular cross section, or a particular absolute size.
of any feature, component, or dimension (e.g., length, width, or thickness, etc.).

190 **Strand material is core-spun (not sheath-core bicomponent strand):**
This subclass is indented under subclass 189. Subject matter wherein the strand is a yarn made by twisting fibers around a filament or yarn core to form a fibrous sheath about the core.

SEE OR SEARCH CLASS:
57, Textiles: Spinning, Twisting, and Twining, subclasses 224 through 230 for core-spun yarns, per se.

191 **Core is synthetic polymeric material:**
This subclass is indented under subclass 190. Subject matter wherein the material of the core comprises a synthetic polymeric material.

192 **Cross-sectional configuration of strand material is specified:**
This subclass is indented under subclass 189. Subject matter wherein the cross-sectional shape of the strand material or a filamentary constituent thereof is specified.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclasses 397 through 402 for strand material having, per se, particular cross sections or physical dimensions.

193 **Cross-sectional configuration varies longitudinally along the strand:**
This subclass is indented under subclass 192. Subject matter wherein the cross section of the strand material or filamentary constituent thereof changes along the length thereof either in dimension or shape.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 399 for longitudinally varying strands, per se.

194 **Hollow strand material:**
This subclass is indented under subclass 192. Subject matter wherein the strand material or a filamentary constituent thereof is tubular or hollow or characterized by one or more voids either coextensive or non-coextensive along the length thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 398 for hollow strand material, per se.

195 **Cross-sectional configuration of the strand material is other than circular:**
This subclass is indented under subclass 192. Subject matter wherein the cross-sectional configuration of the strand material is specified, the cross-sectional configuration not being circular.

196 **Cross-sectional configuration is multi-lobal:**
This subclass is indented under subclass 195. Subject matter wherein the cross-sectional configuration of the strand material is characterized by two or more lobes (i.e., rounded projections or divisions).

197 **Strand material formed of individual filaments having different chemical compositions:**
This subclass is indented under subclass 189. Subject matter wherein the strand material is composed of at least two chemically different individual filaments.

198 **Including inorganic filament:**
This subclass is indented under subclass 197. Subject matter wherein at least one of the two chemically different individual filaments comprises inorganic material (e.g., glass, ceramic, mineral, carbon, or metal filaments, etc.).

199 **Strand material is composed of two or more polymeric materials in physically distinct relationship (e.g., sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, etc.) or composed of physical blend of chemically different polymeric materials or a physical blend of a polymeric material and a filler material:**
This subclass is indented under subclass 181. Subject matter wherein the strand material, per se, or a filamentary constituent thereof is composed of (a) two or more synthetic polymeric materials which are specified as being in sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, or any other physically distinct relationship across a cross section thereof.
(b) a physical blend of two or more polymeric materials specifically disclosed and/or claimed as having distinctly different chemical characteristics, or (c) a blend or an admixture of a polymeric material and a filler material.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 372 for strands and filaments, per se, in combination with structurally defined particulate matter; and subclasses 373 and 374 for multi-component strands and filaments, per se.

200 Sheath-core multicomponent strand material:
This subclass is indented under subclass 199. Subject matter wherein the strand or a filamentary component thereof contains two or more synthetic polymeric materials which are in sheath-core relationship across a cross section thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 333 for a sheath-core filament or strand, per se.

201 Islands-in-sea multicomponent strand material:
This subclass is indented under subclass 199. Subject matter wherein the strand or a filamentary component thereof contains two or more distinct polymeric materials in islands-in-sea distinct physical relationship across a cross section thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 333 for a sheath-core filament or strand, per se.

202 Strand material is a blend of polymeric material and a filler material:
This subclass is indented under subclass 199. Subject matter wherein the strand or a filamentary component thereof comprises a blend or admixture of a synthetic polymeric material and one or more specified filler materials.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 372 for a strand or filament, per se, in combination with particulate matter.

203 Woven fabric is characterized by a particular or differential weave other than fabric in which the strand denier or warp/weft pick count is specified:
This subclass is indented under subclass 181. Subject matter wherein a characteristic of the fabric weave is specified other than the strand denier or the pick yarn (i.e., filling yarn) or warp yarn count (i.e., the number of yarns per specified unit of measure).

SEE OR SEARCH CLASS:
139, Textiles: Weaving, subclasses 383+ through 420+ for woven fabrics made solely by a weaving process without any other fabric processing prior to or following weaving.

204 Triaxially woven fabric:
This subclass is indented under subclass 203. Subject matter wherein the fabric is specified as having been woven with strands disposed in at least three directions within an x-y plane.

205 Three dimensional weave (e.g., x-y-z planes, multiplanar warps and/or wefts, etc.):
This subclass is indented under subclass 203. Subject matter wherein the fabric is specified as composed of multiple stacked warps and/or multiple stacked wefts held in place, respectively, by weft or warp strands.

206 Multi-planar warp layers:
This subclass is indented under subclass 205. Subject matter wherein the fabric is characterized by multiple warp layers in more than one plane.

207 Multi-planar weft layers:
This subclass is indented under subclass 205. Subject matter wherein the fabric is characterized by multiple weft layers in more than one plane.

208 Warp differs from weft:
This subclass is indented under subclass 203. Subject matter wherein the warp yarns are stated to differ from the weft yarns in some specifically detailed manner other than a difference in denier or the number of yarns per unit of length or width.
209 **Materials differ:**
This subclass is indented under subclass 208.
Subject matter wherein the strand material composing the warps and wefts differs chemically.

210 **Including inorganic strand material:**
This subclass is indented under subclass 209.
Subject matter wherein the strands of the warp and/or the weft are composed of inorganic material (e.g., carbon, ceramic, mineral, glass, etc.).

211 **Including natural strand material (e.g., cotton, wool, etc.):**
This subclass is indented under subclass 210.
Subject matter wherein the strands of the warp and/or the weft are composed of inorganic and natural materials (e.g., cotton, wool, etc.).

212 **Including synthetic polymeric strand material:**
This subclass is indented under subclass 210.
Subject matter wherein the strands of the warp and/or the weft are composed of synthetic polymeric material (e.g., viscose rayon, polyamide, polyester, polyimide, etc.).

213 **Including synthetic polymeric strand material:**
This subclass is indented under subclass 209.
Subject matter wherein the strands of the warp and/or the weft are composed of synthetic polymeric material (e.g., viscose rayon, polyamide, polyester, polyimide, etc.).

214 **Including natural strand material:**
This subclass is indented under subclass 213.
Subject matter wherein the strands of the warp and/or the weft are composed of synthetic polymeric and natural material.

215 **Including polyamide strand material:**
This subclass is indented under subclass 213.
Subject matter wherein the synthetic polymeric material is a polyamide (e.g., nylon, etc.).

216 **Including polyester strand material:**
This subclass is indented under subclass 213.
Subject matter wherein the synthetic polymeric material is a polyester.

217 **Warp and weft are identical and contain at least two chemically different strand materials:**
This subclass is indented under subclass 203.
Subject matter wherein at least two chemically different strand materials are disposed in the warp and the same combination of chemically different strand materials are disposed in the weft.

218 **Coated, impregnated, or autogenous bonded:**
This subclass is indented under subclass 203.
Subject matter wherein the fabric has been coated or impregnated or autogenously bonded (i.e., wherein strands or filamentary components thereof have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

219 **Woven fabric contains inorganic strand material:**
This subclass is indented under subclass 218.
Subject matter wherein the strands are composed of inorganic material (e.g., carbon, ceramic, mineral, glass, etc.).

220 **Woven fabric contains synthetic polymeric strand material:**
This subclass is indented under subclass 218.
Subject matter wherein the strands are composed of synthetic polymeric material (e.g., viscose rayon, polyamide, polyimide, polyester, etc.).

221 **Including a foamed layer or component:**
This subclass is indented under subclass 181.
Subject matter including a component or layer specified as being a foam (i.e., a material characterized by a multitude of open or closed cells).

222 **Including a free metal or alloy constituent:**
This subclass is indented under subclass 221.
Subject matter having a constituent which is a metal in elemental or alloy form (i.e., other than in the form of a chelate, salt, or compound resulting from the chemical reaction of a metal).

(1) **Note.** Classified here is, for example, a fabric-foam combination wherein (a) the...
fabric or the foam has been provided with a metal coating, (b) the fabric is composed of a strand comprising elemental metal, or (c) a metal layer having structural integrity has been adhesively associated with the foam and/or fabric layer.

223 Plural foamed layers:
This subclass is indented under subclass 221. Subject matter characterized by having two or more distinct foam layers.

224 Plural fabric layers:
This subclass is indented under subclass 221. Subject matter characterized by having two or more distinct fabric layers.

225 Including a nonwoven fabric layer:
This subclass is indented under subclass 224. Subject matter wherein at least one fabric layer is nonwoven.

226 Woven fabric is coated, impregnated, or autogenously bonded:
This subclass is indented under subclass 221. Subject matter wherein the woven fabric has been coated or impregnated or autogenously bonded (i.e., wherein the strands or filamentary components thereof have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

227 Coating or impregnation includes particulate material other than fiber:
This subclass is indented under subclass 226. Subject matter wherein the coating or impregnation contains particulate material which is not fiber.

228 Including a free metal or alloy constituent:
This subclass is indented under subclass 181. Subject matter having a constituent which is a metal in elemental or alloy form (i.e., in other than the form of a chelate, salt, or compound resulting from the chemical reaction of a metal).

229 Metal or metal-coated strand:
This subclass is indented under subclass 228. Subject matter wherein the metal constituent is in the form of a strand or a coating applied to a strand or strands prior to weaving the strand or strands into a fabric.

SEE OR SEARCH CLASS:
139, Textiles: Weaving, subclass 425 for metal-containing fabrics formed solely from a weaving process and no other process prior to or following weaving.

230 Vapor or sputter deposited metal layer:
This subclass is indented under subclass 228. Subject matter wherein the metal constituent is in the form of a metal coating provided by a vapor deposition or sputter deposition process.

231 Chemically deposited metal layer (e.g., chemical precipitation or electrochemical deposition or plating, etc.):
This subclass is indented under subclass 228. Subject matter wherein the metal constituent is in the form of a distinct layer provided by a chemical or electrochemical process such as chemical precipitation, electrochemical deposition, or plating.

232 Preformed metallic film or foil or sheet (film or foil or sheet had structural integrity prior to association with the woven fabric):
This subclass is indented under subclass 228. Subject matter wherein the metal constituent comprises at least one preformed film, foil, or sheet layer having had structural integrity prior to its association with the fabric.

233 Plural metallic films or foils or sheets:
This subclass is indented under subclass 232. Subject matter characterized by two or more such preformed layers.

234 Plural fabric layers:
This subclass is indented under subclass 232. Subject matter characterized by having two or more fabric (woven, nonwoven, knit) layers.

235 Including a nonwoven fabric layer:
This subclass is indented under subclass 234. Subject matter wherein at least one fabric layer is nonwoven.

236 Including a preformed synthetic polymeric film or sheet (i.e., film or sheet having struc-
tural integrity prior to association with the woven fabric):
This subclass is indented under subclass 232. Subject matter which contains at least one additional preformed synthetic polymeric film or sheet having had structural integrity prior to association with the fabric and which maintains its structural integrity after association with the fabric.

237 Including particulate material other than fiber:
This subclass is indented under subclass 232. Subject matter which contains particulate material which is not fiber.

238 Plural fabric layers:
This subclass is indented under subclass 228. Subject matter characterized by having two or more fabric (woven, nonwoven, knit) layers.

239 Woven fabric including an additional woven fabric layer:
This subclass is indented under subclass 181. Subject matter wherein the woven fabric is in combined association with an additional woven fabric.

240 Mechanically needled or hydroentangled:
This subclass is indented under subclass 239. Subject matter wherein the woven fabric layers have been adhered to one another by a mechanical needling or hydroentanglement process.

(1) Note. In a mechanical needling process, barbed needles are forced through fiber layers and in the process displace enough fibers to cause interlayer penetration of fibers with resultant fiber layer bonding.

(2) Note. In a hydroentanglement process, streams of water are forced through fiber layers and in the process displace enough fibers to cause interlayer penetration of fibers with resultant fiber layer bonding.

SEE OR SEARCH CLASS:
156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclass 148 for a process of associating one woven web with another using a process of needling.

241 Four or more layers:
This subclass is indented under subclass 240. Subject matter wherein four or more layers have been subjected to a needling or hydroentanglement operation.

242 Coated, impregnated, or autogenously bonded:
This subclass is indented under subclass 240. Subject matter wherein at least one woven fabric has been coated or impregnated or subjected to autogenous bonding (i.e., wherein the strand or filamentary components of the fabric have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

243 Woven fabric layers comprise chemically different strand material:
This subclass is indented under subclass 239. Subject matter wherein the woven fabrics differ chemically one from another due to the composition of strand materials incorporated therein.

244 Three or more fabric layers:
This subclass is indented under subclass 243. Subject matter composed of three or more fabric (woven, nonwoven, knitted) layers.

245 One of which is a nonwoven fabric layer:
This subclass is indented under subclass 244. Subject matter wherein at least one fabric layer is nonwoven.

(1) Note. A nonwoven fabric is an assembly having structural integrity of continuous or discontinuous fibers held together in random or ordered (e.g., parallel, etc.) array by (a) mechanical interlock (e.g., as a consequence of needling or hydroentangling, etc.), (b) in the case of thermoplastic fibers, heat-induced bonding (i.e., fusing), or (c) an impregnation or coating of a bonding agent. Paper is not to be considered as nonwoven fabric for classification here.
246 Three or more fabric layers:
This subclass is indented under subclass 239.
Subject matter wherein the woven fabric is combined with two or more additional fabric (woven, nonwoven, knit) layers.

247 One of which is a nonwoven fabric layer:
This subclass is indented under subclass 246.
Subject matter wherein at least one of the additional fabric layers is nonwoven.

248 Woven fabric layers impregnated with a blend of thermosetting and thermoplastic resins:
This subclass is indented under subclass 246.
Subject matter wherein the woven fabric layers are impregnated with a blend of a thermosetting resin (i.e., a resin which hardens when subjected to heating conditions) and a thermoplastic resin (i.e., a resin rendered soft and moldable under heating conditions).

249 Woven fabric layers impregnated with an organosilicon resin:
This subclass is indented under subclass 246.
Subject matter wherein the layers have been impregnated with a polymeric organic silicon compound or an organosilicon oxide polymer.

(1) Note. Organosilicon resins usually serve as water and heat-resistant lubricants and finishers and can impart stain resistance, water repellency, and an enhanced crease resistance and feeling of softness to fabrics treated therewith.

250 Woven fabric layers impregnated with a natural or synthetic rubber:
This subclass is indented under subclass 246.
Subject matter wherein the layers have been impregnated with a natural or synthetic rubber.

251 Woven fabric layers impregnated with a thermosetting resin:
This subclass is indented under subclass 246.
Subject matter wherein the fabric layers have been impregnated with a resin which hardens when subjected to heating conditions.

252 Phenolic resin:
This subclass is indented under subclass 251.
Subject matter wherein the thermosetting resin is produced by condensing an aldehyde or ketone with a phenol or phenolates.

253 Epoxy resin:
This subclass is indented under subclass 251.
Subject matter wherein the thermosetting resin is produced by reacting an epoxide (e.g., epichlorohydrin, etc.) and a polyol (e.g., bisphenol, etc.) or alcoholate thereof.

254 Woven fabric layers impregnated with a thermoplastic resin (e.g., vinyl polymer, etc.):
This subclass is indented under subclass 246.
Subject matter wherein the woven fabric layers have been impregnated with a resin which is rendered soft and moldable under heating conditions such as vinyl polymer.

255 Three or more distinct layers:
This subclass is indented under subclass 239.
Subject matter wherein the woven fabric is combined with two or more additional distinct layers.

256 At least one layer is derived from water-settable material (e.g., cement, gypsum, etc.):
This subclass is indented under subclass 255.
Subject matter wherein at least one layer contains a water-settable material (e.g., cement, gypsum, etc.) which forms a distinct layer.

257 At least one layer contains wood or cork:
This subclass is indented under subclass 255.
Subject matter wherein at least one layer comprises a material derived from the structural element of a tree or shrub or the bark of a tree.

258 At least one layer contains bituminous material (e.g., tar pitch, asphalt, etc.):
This subclass is indented under subclass 255.
Subject matter wherein at least one layer is disclosed as being pitch, asphalt, tar, bitumen, or the residue from the distillation of mineral oil and/or coal.

259 At least one layer comprises paper:
This subclass is indented under subclass 255.
Subject matter wherein at least one layer comprises a sheet or web having structural integrity.
formed by the deposition of animal, vegetable, mineral, or synthetic fibers or mixtures thereof from a fluid suspension or dispersion which may or may not contain additional materials.

260 **At least one layer contains natural or synthetic rubber:**
This subclass is indented under subclass 255. Subject matter wherein at least one layer comprises a natural or synthetic rubber.

261 **At least one layer is a preformed synthetic polymeric film or sheet:**
This subclass is indented under subclass 255. Subject matter wherein at least one of the additional layers comprises a preformed synthetic polymer which is in the form of a film, foil, or sheet having had structural integrity prior to its association with the fabric.

262 **At least one layer comprises ceramic or glass material in other than particulate form:**
This subclass is indented under subclass 255. Subject matter wherein at least one layer comprises compound in non-particulate form composed of one or more fired non-metallic inorganic compounds or one or more fused metallic silicates.

263 **Composite consisting of at least two woven fabrics bonded by an interposed adhesive layer (but not two woven fabrics bonded together by an impregnation which penetrates through the thickness of at least one of the woven fabric layers):**
This subclass is indented under subclass 255. Subject matter characterized by the presence of at least two juxtaposed woven fabric layers with a distinct adhesive layer interposed there-between.

(1) Note. The adhesive layer is not provided by an impregnation penetrating through the thickness of at least one of the woven fabric layers.

264 **Fabric layer contains natural strand material:**
This subclass is indented under subclass 263. Subject matter wherein at least one fabric layer contains animal (e.g., wool, silk, etc.), vegetable (e.g., cotton, flax, etc.), or mineral (e.g., asbestos, etc.) naturally occurring filamentary material.

265 **Fabric layer contains carbon or carbonaceous strand material:**
This subclass is indented under subclass 263. Subject matter wherein at least one fabric layer contains carbon (graphite) strand material or a high tensile strength, stiff filamentary material produced by heating the filamentary material under conditions tending to remove all elements but carbon.

266 **Fabric layer contains glass strand material:**
This subclass is indented under subclass 263. Subject matter wherein at least one fabric layer is composed of strand material comprising filamentary material produced by spinning molten glass.

267 **Including particulate material other than fiber:**
This subclass is indented under subclass 255. Subject matter wherein at least one of the layers contains particulate material which is not fiber.

268 **Woven fabric including a nonwoven fabric other than paper:**
This subclass is indented under subclass 181. Subject matter wherein the woven fabric is in association with a nonwoven fabric, which is not paper.

269 **Nonwoven fabric layer comprises parallel arrays of strand material:**
This subclass is indented under subclass 268. Subject matter wherein the nonwoven fabric comprises strand material which has been oriented in a particular direction, the strand material components being parallel to one another.

270 **Needled:**
This subclass is indented under subclass 268. Subject matter wherein the fabric layers have been adhered to one another by a mechanical needling.

(1) Note. In a mechanical needling process, barbed needles are forced through fibrous layers and in the process displace enough fibers to cause interlayer penetration of fibers and fiber layer bonding as a consequence of interlayer fiber friction.
271 Including an additional nonwoven fabric:
This subclass is indented under subclass 270. Subject matter characterized by the presence of two or more nonwoven fabrics which are not paper.

272 Additional nonwoven fabric comprises chemically different strand material than the first nonwoven fabric:
This subclass is indented under subclass 271. Subject matter wherein the chemical characteristics of the strand material comprising two different nonwoven fabrics are distinctly different.

273 Including inorganic strand material:
This subclass is indented under subclass 271. Subject matter wherein at least one of the nonwoven fabrics is composed of strand material which is inorganic (e.g., glass, ceramic, carbon, etc.).

274 Nonwoven fabric layer comprises at least two chemically different fibers:
This subclass is indented under subclass 270. Subject matter wherein the nonwoven fabric layer contains two or more fibrous materials having distinctly different chemical characteristics.

275 Coated, impregnated, or autogenously bonded:
This subclass is indented under subclass 270. Subject matter wherein at least one layer has been coated or impregnated or subjected to autogenous bonding (i.e., wherein strand or filamentary components have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

276 Hydroentangled:
This subclass is indented under subclass 268. Subject matter wherein the fabric layers have been adhered to one another by hydroentangling.

(1) Note. In a hydroentangling process, liquid streams impinge against fibrous layers and penetrate thereinto and in the process displace enough fibers to cause interlayer penetration of fibers and fiber layer bonding as a consequence of interlayer fiber friction.

277 Coated, impregnated, or autogenously bonded:
This subclass is indented under subclass 268. Subject matter wherein at least one layer has been coated or impregnated or subjected to autogenous bonding (i.e., wherein strand or filamentary components have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

278 Plural nonwoven fabric layers:
This subclass is indented under subclass 277. Subject matter wherein at least two nonwoven fabric layers which are not paper are associated with a woven fabric layer.

279 Coating or impregnation is derived from a water-settable material (e.g., cement, gypsum, etc.):
This subclass is indented under subclass 277. Subject matter wherein the coating or impregnation is a water-settable material (e.g., cement, gypsum, etc.) which forms a distinct layer.

280 Coating or impregnation contains natural or synthetic rubber:
This subclass is indented under subclass 277. Subject matter wherein the coating or impregnation includes natural or synthetic rubber.

281 Coating or impregnation contains synthetic polymeric material:
This subclass is indented under subclass 277. Subject matter wherein at least one fabric layer has been coated or impregnated with a polymeric material, the polymeric material being synthetic.

282 Coating or impregnation contains bituminous material:
This subclass is indented under subclass 277. Subject matter wherein at least one layer is disclosed as being coated or impregnated with a pitch, asphalt, tar, bitumen, or the residue from the distillation of mineral oil and/or coal.
283 Four or more layers:
This subclass is indented under subclass 277. Subject matter wherein at least four distinct layers are associated together including a woven fabric layer and at least one nonwoven fabric layer, the coating or impregnation may constitute at least one layer.

284 Including particulate material other than fiber:
This subclass is indented under subclass 283. Subject matter wherein at least one of the four layers contains particulate material which is not fiber.

285 Including particulate material other than fiber:
This subclass is indented under subclass 277. Subject matter wherein a woven fabric layer, a nonwoven fabric layer, and a coating or impregnation layer are associated together and at least one of the above mentioned layers contains particulate material which is not fiber.

286 Woven fabric with a preformed polymeric film or sheet:
This subclass is indented under subclass 181. Subject matter which is associated with at least one additional preformed layer having had structural integrity prior to association with the fabric and which maintains its structural integrity after association with the fabric, the preformed layer being formed from a synthetic polymeric material which is in the form of a film or sheet.

287 Ester condensation polymer sheet or film (e.g., polyethylene terephthalate, etc.):
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is an ester condensation product such as polyethylene terephthalate, etc.

288 Vinyl polymer or copolymer sheet or film (e.g., polyvinyl chloride, polyvinylidene chloride, polyvinyl acetate, etc.):
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is a vinyl polymer or copolymer such as polyvinyl chloride, polyvinylidene chloride, polyvinyl acetate, etc.

289 Fluorinated olefin polymer or copolymer sheet or film (e.g., Teflon®):
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is a fluorinated olefin polymer or copolymer such as Teflon®, etc.

290 Olefin polymer or copolymer sheet or film (e.g., polypropylene, polyethylene, ethylene-butylene copolymer, etc.):
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is an olefin polymer or copolymer such as polypropylene, polyethylene, ethylene-butylene copolymer, etc.

291 Amide condensation polymer sheet or film (e.g., nylon 6, etc.):
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is an amide condensation polymer such as nylon 6, etc.

292 Polyimide sheet or film:
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is a polyimide.

293 Natural or synthetic rubber sheet or film:
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet is natural or synthetic rubber.

294 Including particulate material other than fiber:
This subclass is indented under subclass 286. Subject matter wherein the preformed polymeric film or sheet or the woven fabric associated therewith contains particulate material which is not fiber.

295 Including a paper or wood pulp layer:
This subclass is indented under subclass 181. Subject matter wherein the woven fabric is associated with an additional layer comprising a sheet or web having structural integrity formed by the deposition of animal, vegetable, mineral, or synthetic fibers or mixtures thereof from a fluid suspension or dispersion which may or may not contain additional materials.
Mica paper layer:
This subclass is indented under subclass 295. Subject matter wherein the paper is formed from mica.

Plural paper or wood pulp layers:
This subclass is indented under subclass 295. Subject matter wherein the woven fabric is associated with two or more additional layers comprising a sheet or web having structural integrity formed by the deposition of animal, vegetable, mineral, or synthetic fibers or mixtures thereof from a fluid suspension or dispersion which may or may not contain additional materials.

Including a bituminous layer:
This subclass is indented under subclass 295. Subject matter wherein at least one layer is disclosed as being coated or impregnated with a pitch, asphalt, tar, bitumen, or the residue from the distillation of mineral oil and/or coal.

Including an outermost adhesive layer:
This subclass is indented under subclass 295. Subject matter wherein an outer surface of the woven fabric and/or the paper or wood pulp layer has associated therewith an adhesive layer.

Including a natural or synthetic rubber layer:
This subclass is indented under subclass 295. Subject matter wherein the woven fabric and/or the paper or wood pulp layer has associated therewith a natural or synthetic rubber layer in the form of a coating, impregnation, or separate and distinct layer.

Including strand which is stated to have specific attributes (e.g., heat or fire resistance, chemical or solvent resistance, high absorption for aqueous composition, water solubility, heat shrinkability, etc.):
This subclass is indented under subclass 181. Subject matter wherein the woven fabric contains a strand which has attributes such as heat or fire resistance, chemical or solvent resistance, high absorption for aqueous compositions, water solubility, heat shrinkability, etc., the strand attributes being specifically stated.

(1) Note. Inherent properties of a given strand or fiber material should not be considered for classification purposes in this subclass, only specifically stated properties of the strand or fiber material.

Strand is other than glass and is heat or fire resistant:
This subclass is indented under subclass 301. Subject matter wherein the strand which is not glass is heat or fire resistant.

Strand is heat shrinkable:
This subclass is indented under subclass 301. Subject matter wherein the strand shrinks when exposed to heat.

KNIT FABRIC (I.E., KNIT STRAND OR STRIP MATERIAL):
This subclass is indented under the class definition. Subject matter wherein the fabric is a knit fabric composed of strands or strips interengaged with one another to form interlocked loops of strand material, the interlocked loops forming wales and courses in the knit fabric.

SEE OR SEARCH CLASS:
66, Textiles: Knitting, for knitted fabrics made solely by a knitting process without any other fabric processing prior to or following knitting.

428, Stock Material or Miscellaneous Articles, subclasses 34.1+ for hollow or container type articles (e.g., tube, vase, etc.) containing at least one knit fabric; subclasses 105+ for knit fabrics wherein strands or strips thereof are disposed in angular relation to strands or strips in a second layer or component; subclass 114 for knit fabrics wherein strands or strips thereof are arranged in parallel relation to strands or strips in a second layer or component; subclasses 175+ for a product of uniform thickness but of nonplanar characteristics and comprising interengaged strands or strips; and subclass 196 for knit fabrics with a discontinuous coating, impregnation, or bond.
305 Including parallel strips:
This subclass is indented under subclass 304. Subject matter wherein parallel strips are incorporated into the knitted fabric.

(1) Note. A strip is an elongated element having a width which substantially exceeds its thickness.

306 Including an elastic strand:
This subclass is indented under subclass 304. Subject matter wherein a strand or strip or a filamentary component of a strand or strip of which the fabric is composed is characterized by elastic qualities (e.g., it is formed of or has a core of elastomeric polymeric material, etc.).

SEE OR SEARCH THIS CLASS, SUBCLASS:
308, for fabrics composed of a non-elastomeric core-spun strand.

SEE OR SEARCH CLASS:
57, Textiles: Spinning, Twisting, and Twining, subclasses 224 through 230 for core-spun yarns, per se.

309 Cross-sectional configuration of strand material is specified:
This subclass is indented under subclass 308. Subject matter wherein the cross-sectional shape of the strand material or a filamentary constituent thereof is specified or of continuously uniform diameter or of a particular nature or specified shape or dimension.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclasses 397 through 402 for strand materials having, per se, particular cross sections or physical dimensions.

310 Strand material formed of individual filaments having different chemical compositions:
This subclass is indented under subclass 308. Subject matter wherein the strand material is composed of at least two chemically different individual filaments.

311 Strand is a monofilament composed of two or more polymeric materials in physically distinct relationship (e.g., sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, etc.) or composed of physical blend of chemically different polymeric materials or a physical blend of a polymeric material and a filler material:
This subclass is indented under subclass 304. Subject matter wherein the strand material, per se, or a filamentary constituent thereof is composed of (a) two or more synthetic polymeric materials which are specified as being in sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, or any other physically distinct relationship across a cross section thereof, (b) a physical blend of two or more polymeric materials specifically disclosed and/or claimed as having distinctly different chemical or physical characteristics, or (c) a blend or an admixture of a polymeric material and a filler material.
SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 372 for strands and filaments, per se, in combination with structurally defined particulate matter; and subclasses 373 and 374 for multi-component strands and filaments, per se.

312 Knit fabric is characterized by a particular or differential knit pattern other than open knit fabric or a fabric in which the strand denier is specified:
This subclass is indented under subclass 304. Subject matter wherein a characteristic of the fabric knit pattern is specified other than the strand denier or an open knit fabric.

SEE OR SEARCH THIS CLASS, SUBCLASS:
1, for an open knit fabric.

SEE OR SEARCH CLASS:
66, Textiles: Knitting, subclass 202 for metal-containing fabrics formed solely from a knitting process and no other process prior to or following knitting.

313 Including additional strand inserted within knit fabric:
This subclass is indented under subclass 312. Subject matter wherein the knit pattern includes additional strand within the knit fabric, the additional strand being inserted in the knit fabric to form a warp-inserted and/or weft-inserted knit fabric.

314 Warp knit insert strand:
This subclass is indented under subclass 313. Subject matter wherein the additional strand is inserted within the knit fabric to form a warp-inserted knit fabric.

315 Including a foamed layer or component:
This subclass is indented under subclass 304. Subject matter including a component or layer specified as being a foam (i.e., a material characterized by a multitude of open or closed cells).

316 Including a free metal or alloy constituent:
This subclass is indented under subclass 304. Subject matter having a constituent which is a metal in elemental or alloy form (i.e., other than in the form of a chelate, salt, or compound resulting from the chemical reaction of a metal).

(1) Note. Classified here is, for example, a knit fabric wherein (a) the fabric has been provided with a metal coating, (b) the fabric is composed of a strand comprising elemental metal, and (c) a metal layer having structural integrity has been adhesively associated with the fabric layer.

SEE OR SEARCH CLASS:
66, Textiles: Knitting, subclass 202 for metal-containing fabrics formed solely from a knitting process and no other process prior to or following knitting.

317 Chemically deposited metal layer (e.g., chemical precipitation or electrochemical deposition or plating, etc.):
This subclass is indented under subclass 316. Subject matter wherein the metal constituent is in the form of a distinct layer provided by a chemical or electrochemical process such as chemical precipitation, electrochemical deposition, or plating.

318 Including an additional knit fabric layer:
This subclass is indented under subclass 304. Subject matter wherein the knit fabric is in association with an additional knit fabric layer.

319 Including a nonwoven fabric layer other than paper:
This subclass is indented under subclass 304. Subject matter wherein the knit fabric is in association with a nonwoven fabric which is not paper.

320 FELT FABRIC:
This subclass is indented under the class definition. Subject matter wherein the fabric comprises fibers having barbs or some other laterally extending fiber portion, the fibers being worked together by pressure, heat, or some other means without weaving or knitting to
form a sheet having structural integrity due to the interlocking of the barb-like extensions on the fibers.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclasses 141+ for a textured surface, such as roofing elements, comprising asphalt impregnated felt fabric substrates with particulate matter thereon.

321 From natural organic fiber (e.g., wool, etc.):
This subclass is indented under subclass 320. Subject matter wherein the fibers include natural organic fibers such as wool, etc.

322 Including particulate material other than fiber:
This subclass is indented under subclass 321. Subject matter wherein the fabric contains particulate material which is not fiber.

323 At least three layers:
This subclass is indented under subclass 321. Subject matter wherein the fabric comprises at least two additional distinct layers.

324 From synthetic organic fiber:
This subclass is indented under subclass 320. Subject matter wherein the fibers include synthetic organic fibers.

325 Including particulate material other than fiber:
This subclass is indented under subclass 320. Subject matter wherein the fabric contains particulate material which is not fiber.

326 At least three layers:
This subclass is indented under subclass 320. Subject matter wherein the fabric comprises at least two additional distinct layers.

327 NONWOVEN FABRIC (I.E., NONWOVEN STRAND OR FIBER MATERIAL):
This subclass is indented under the class definition. Subject matter wherein the fabric comprising a fabric assembly having structural integrity of continuous or discontinuous strands or fibers held together in random or ordered (e.g., parallel, etc.) array by (a) mechanical interlocking (e.g., as a consequence of needling or hydroentangling, etc.) in the case of thermoplastic fibers, heat-induced bonding (i.e., fusing), or (b) an impregnation or coating of a bonding agent.

(1) Note. Paper or felt are not to be considered as nonwoven fabrics for classification here.

SEE OR SEARCH CLASS:
28, Textiles: Manufacturing, subclasses 103 through 115 for nonwoven fabrics made solely by a fiber entanglement or interlocking process without any other fabric processing prior to or following the entanglement or interlocking process.

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclass 180 and 181 for processes used to form nonwoven fabrics comprising thermoplastic fibers (i.e., heat-induced bonding).

162, Paper Making and Fiber Liberation, subclasses 100 through 231 for paper products made by a papermaking process without the addition of an additional fabric layer (i.e., woven, knit, or nonwoven fabric layer).

428, Stock Material or Miscellaneous Articles, subclasses 34.1+ for hollow or container type articles (e.g., tube, vase, etc.) containing nonwoven fabric; subclasses 174+ for a nonwoven product of uniform thickness but of nonplanar characteristics; and subclasses 195+ for nonwoven fabrics with a discontinuous coating, impregnation, or bond.

328 Nonwoven fabric has an elastic quality:
This subclass is indented under subclass 327. Subject matter wherein the fabric has an ability to recover substantially its original shape and size immediately after removal of deformation or elongation causing stress.

329 Nonwoven fabric comprises an elastic strand or fiber material:
This subclass is indented under subclass 328. Subject matter wherein a strand or filamentary constituent thereof or fiber material of which the fabric is composed is characterized by elastic qualities (e.g., it is formed of or has a core of elastomeric polymeric material, etc.).
SEE OR SEARCH THIS CLASS, SUBCLASS:
334, for fabrics composed of a non-elastomeric core-spun strand or fiber material.

SEE OR SEARCH CLASS:
57, Textiles: Spinning, Twisting, and Twining, subclasses 224 through 230 for core-spun yarns, per se.

335 Cross-sectional configuration of strand or fiber material is specified:
This subclass is indented under subclass 334. Subject matter wherein the cross-sectional shape of the strand or a filamentary constituent thereof or the fiber material is specified or of continuously uniform diameter or of a particular nature or specified shape or dimension.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclasses 397 through 402 for strand materials having, per se, particular cross sections or physical dimensions.

336 Cross-sectional configuration varies longitudinally along strand or fiber material:
This subclass is indented under subclass 335. Subject matter wherein the cross-sectional configuration of the strand or a filamentary constituent thereof or the fiber material changes along the length thereof either in dimension or shape.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 399 for longitudinally varying strands, per se.

337 Cross-sectional configuration of strand or fiber material is other than circular:
This subclass is indented under subclass 335. Subject matter wherein the cross-sectional configuration of the strand or a filamentary constituent thereof or the fiber material is specified, not being circular.

338 Hollow strand or fiber material:
This subclass is indented under subclass 335. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is tubular or hollow or characterized by one or more voids either co-extensive or non-coextensive along the length thereof.
339 Microcellular strand or fiber material: 
This subclass is indented under subclass 335. Subject matter wherein the strand or filamentary constituent thereof or the fiber material is microcellular in structure.

340 Strand or fiber material specified as having micro dimensions (i.e., microfiber): 
This subclass is indented under subclass 334. Subject matter wherein the strand or filamentary constituent thereof or the fiber material is specified as having a diameter of less than 100 microns or is specified as microfibers.

341 Strand or fiber material is blended with another chemically different microfiber in the same layer: 
This subclass is indented under subclass 340. Subject matter wherein the strand or filamentary constituent thereof or the fiber material is blended with additional microfiber to form a single layer, the additional microfiber being chemically different.

342 Blend of synthetic polymeric and inorganic microfibers: 
This subclass is indented under subclass 341. Subject matter wherein the single fabric layer comprises synthetic polymeric microfiber and inorganic microfiber.

343 Blend of chemically different inorganic microfibers: 
This subclass is indented under subclass 341. Subject matter wherein the single fabric layer comprises at least two inorganic microfibers which are chemically different from one another.

344 Including other strand or fiber material in the same layer not specified as having micro dimensions: 
This subclass is indented under subclass 340. Subject matter wherein a single layer contains a strand or a filamentary constituent thereof or a fiber material of micro dimensions blended with another strand or fiber material.

345 Including another chemically different microfiber in a separate layer: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is combined with a separate layer which contains a chemically different microfiber.

346 Including other strand or fiber material in a different layer not specified as having micro dimensions: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is combined with a separate layer which contains other strand or fiber material.

347 Microfiber is a composite fiber: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material specified as having micro dimensions is a composite microfiber.

348 Microfiber is glass: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is glass.

349 Microfiber is carbon or carbonaceous: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is a carbon (graphite) or carbonaceous microfiber.

350 Autogenously bonded: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is autogenously bonded (i.e., having heat- and/or pressure-promoted thermoplastic welding or solvent bonding).

351 Microfiber is synthetic polymer: 
This subclass is indented under subclass 340. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is a synthetic polymeric microfiber.
352 Strand or fiber material is specified as non-linear (e.g., crimped, coiled, etc.):
This subclass is indented under subclass 334. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material is specified as being crimped, coiled, etc.

353 Composite strand or fiber material:
This subclass is indented under subclass 352. Subject matter wherein the strand or a filamentary constituent thereof or the fiber material comprises two or more chemically distinct components.

354 Carbon or carbonaceous strand or fiber material:
This subclass is indented under subclass 352. Subject matter wherein the strand or filamentary constituent thereof or the fiber material comprises carbon (graphite) or carbonaceous material.

355 Glass strand or fiber material:
This subclass is indented under subclass 352. Subject matter wherein the strand or filamentary constituent thereof or the fiber material comprises glass material.

356 A single nonwoven layer comprising nonlinear synthetic polymeric strand or fiber material and strand or fiber material not specified as nonlinear:
This subclass is indented under subclass 352. Subject matter wherein the strand or filamentary constituent thereof or fiber material which is specifically stated to be nonlinear comprises a synthetic polymeric material and is combined with an additional strand or fiber material which is not specified as nonlinear to form a single layer.

357 Synthetic polymeric strand or fiber material is of staple length:
This subclass is indented under subclass 356. Subject matter wherein the strand or filamentary constituent thereof or fiber material which is specifically stated to be nonlinear comprises staple length material.

358 A nonwoven fabric having a layer comprising strand or fiber material which is not specified as nonlinear:
This subclass is indented under subclass 352. Subject matter wherein the strand or filamentary constituent thereof or fiber material which is specifically stated to be nonlinear comprises a synthetic polymeric material and is combined with at least one additional separate and distinct layer of strand or fiber material which is not being specified as nonlinear.

359 Synthetic polymeric strand or fiber material:
This subclass is indented under subclass 352. Subject matter wherein the strand or filamentary constituent thereof or fiber material which is specifically stated to be nonlinear comprises a synthetic polymeric material.

360 Synthetic polymeric strand or fiber material is of staple length:
This subclass is indented under subclass 359. Subject matter wherein the strand or filamentary constituent thereof or fiber material which is specifically stated to be nonlinear comprises a staple length synthetic polymeric material.

361 Including strand or fiber material which is a monofilament composed of two or more polymeric materials in physically distinct relationship (e.g., sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, etc.) or composed of physical blend of chemically different polymeric materials or a physical blend of a polymeric material and a filler material:
This subclass is indented under subclass 327. Subject matter wherein the strand or fiber material, per se, is a monofilament composed of (a) two or more synthetic polymeric materials which are specified as being in sheath-core, side-by-side, islands-in-sea, fibrils-in-matrix, or any other physically distinct relationship across a cross section thereof, (b) a physical blend of two or more polymeric materials specifically disclosed and/or claimed as having distinctly different chemical or physical characteristics, or (c) a blend or an admixture of a polymeric material and a filler material.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 372 for strand or fiber material containing structurally
defined particulate material, per se; and subclasses 373 and 374 for multicomponent strands and filaments, per se.

362 Side-by-side multicomponent strand or fiber material:
This subclass is indented under subclass 361. Subject matter wherein the strand or fiber material contains two or more synthetic polymeric materials, the polymeric materials being in a side-by-side relationship across a cross section thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 374 for a side-by-side filament or strand, per se.

363 Islands-in-sea multicomponent strand or fiber material:
This subclass is indented under subclass 361. Subject matter wherein the strand or fiber material is characterized by two or more distinct polymeric materials in an islands-in-sea distinct physical relationship across a cross section thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 374 for an island-in-sea filament or strand, per se.

364 Sheath-core multicomponent strand or fiber material:
This subclass is indented under subclass 361. Subject matter wherein the strand or fiber material contains two or more synthetic polymeric materials which are in a sheath-core relationship across a cross section thereof.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 373 for a sheath-core filament or strand, per se.

365 Strand or fiber material is a blend of polymeric material and a filler material:
This subclass is indented under subclass 361. Subject matter wherein the strand or fiber material comprises a blend or admixture of a synthetic polymeric material and one or more specified filler materials.

SEE OR SEARCH CLASS:
428, Stock Material or Miscellaneous Articles, subclass 372 for a strand or fiber material containing structurally defined particulate material, per se.

366 Including parallel strand or fiber material within the nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric comprises strand or fiber material which has been oriented in a particular direction, the strand or fiber material being parallel to one another.

367 Parallel strand or fiber material is glass:
This subclass is indented under subclass 366. Subject matter wherein the parallel strand or fiber material within the nonwoven fabric is glass material.

368 Parallel strand or fiber material is inorganic (e.g., rock wool, mineral wool, etc.):
This subclass is indented under subclass 366. Subject matter wherein the parallel strand or fiber material within the nonwoven fabric is inorganic material.

369 Parallel strand or fiber material is naturally occurring (e.g., cotton, wool, etc.):
This subclass is indented under subclass 366. Subject matter wherein the parallel strand or fiber material within the nonwoven fabric is naturally occurring material such as cotton, wool, etc.

370 Including a foamed layer or component:
This subclass is indented under subclass 327. Subject matter including a component or layer specified as being a foam (i.e., a material characterized by a multitude of open or closed cells).

371 Including a free metal or alloy constituent:
This subclass is indented under subclass 370. Subject matter having a constituent which is a metal in elemental or alloy form (i.e., other than in the form of a chelate, salt, or compound resulting from the chemical reaction of a metal).

(1) Note. Classified here is, for example a fabric-foam combination wherein (a) the

December 2002 Edition
fabric or the foam has been provided with a metal coating, (b) the fabric is composed of a strand comprising elemental metal, and (c) a metal layer having structural integrity has been adhesively associated with the foam and/or fabric layer.

372 **Plural foamed layers:**
This subclass is indented under subclass 370. Subject matter characterized by having two or more distinct foam layers.

373 **Plural fabric layers:**
This subclass is indented under subclass 370. Subject matter characterized by having two or more distinct fabric layers.

374 **Nonwoven fabric is coated, impregnated, or autogenously bonded:**
This subclass is indented under subclass 370. Subject matter wherein the nonwoven fabric has been coated or impregnated or autogenously bonded (i.e., wherein the strands or filamentary components thereof or fiber material have been caused to adhere to one another through activation of an inherent cohesive or adhesive property by heat and/or pressure or application of solvent).

375 **Including particulate material other than fiber:**
This subclass is indented under subclass 374. Subject matter wherein the coated, impregnated, or autogenously bonded nonwoven fabric contains particulate material which is not in fiber form.

376 **Including a free metal or alloy constituent:**
This subclass is indented under subclass 327. Subject matter having a constituent which is a metal in elemental or alloy form (i.e., in other than the form of a chelate, salt, or compound resulting from the chemical reaction of a metal).

377 **Metal or metal-coated strand or fiber material:**
This subclass is indented under subclass 376. Subject matter wherein the metal constituent is in the form of a strand or fiber material or a coating applied to a strand or fiber material prior to forming the strand or fiber material into a fabric.

378 **Preformed metallic film or foil or sheet (film or foil or sheet had structural integrity prior to association with the nonwoven fabric):**
This subclass is indented under subclass 376. Subject matter wherein the metal constituent was provided by at least one preformed layer having had structural integrity prior to its association with the fabric.

379 **Vapor, chemical, or spray deposited metal layer:**
This subclass is indented under subclass 376. Subject matter wherein the metal constituent is in the form of a distinct layer provided by a vapor, chemical, spray, or electrochemical process (e.g., chemical precipitation or electrochemical deposition or plating).

380 **Particulate free metal or alloy constituent:**
This subclass is indented under subclass 376. Subject matter wherein the metal in elemental or alloy form is particulate material.

381 **Including an additional nonwoven fabric:**
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is in association with an additional nonwoven fabric.

382 **Additional nonwoven fabric is a spun-bonded fabric:**
This subclass is indented under subclass 381. Subject matter wherein the additional nonwoven fabric is a spun-bonded fabric.

383 **Needled:**
This subclass is indented under subclass 382. Subject matter wherein the first nonwoven fabric is needled prior to association with the spun-bonded fabric or the association therewith is by a needling process.

384 **Hydroentangled:**
This subclass is indented under subclass 382. Subject matter wherein the first nonwoven fabric is hydroentangled prior to association with the spun-bonded fabric or the association therewith is by a hydroentanglement process.
385 Including a wood fiber containing layer: This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric has associated therewith an additional wood fiber layer.

386 Including a layer derived from a water-settable material (e.g., cement, gypsum, etc.): This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric has associated therewith a water-settable material (e.g., cement, gypsum, plaster, etc.) which forms a distinct layer.

387 Mechanically interengaged by needling or impingement of fluid (e.g., gas or liquid stream, etc.): This subclass is indented under subclass 381. Subject matter wherein the first nonwoven fabric is needled or impinged by fluid such as a gas or liquid stream prior to association with the additional nonwoven fabric or the association therewith is by a needling or fluid impingement process.

388 Needled: This subclass is indented under subclass 387. Subject matter wherein the nonwoven fabrics are mechanically interengaged by needling.

389 Separate nonwoven fabric layers comprise chemically different strand or fiber material: This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric layers comprise chemically different strand or fiber material.

390 At least one layer of inorganic strand or fiber material and at least one layer of synthetic polymeric strand or fiber material: This subclass is indented under subclass 389. Subject matter wherein the nonwoven layer comprises inorganic strands or fiber materials and the additional nonwoven layer comprises synthetic polymeric strand or fiber material.

391 Multiple nonwoven fabric layers composed of the same inorganic strand or fiber material: This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric layer and the additional nonwoven fabric layer comprise the same inorganic strand or fiber material.

392 Multiple nonwoven fabric layers composed of the same polymeric strand or fiber material: This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric layer and the additional nonwoven fabric layer comprise the same polymeric strand or fiber material.

393 Including particulate material other than fiber: This subclass is indented under subclass 381. Subject matter wherein the nonwoven fabric layer includes particulate material which is not fiber.

394 Nonwoven fabric with a preformed polymeric film or sheet: This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is associated with a preformed polymeric film or sheet layer having structural integrity prior to association with the nonwoven fabric.

395 Ester condensation polymer sheet or film (e.g., polyethylene terephthalate, etc.): This subclass is indented under subclass 394. Subject matter wherein the preformed polymeric film or sheet is an ester condensation polymer such as polyethylene terephthalate, etc.

396 Vinyl polymer or copolymer sheet or film (e.g., polyvinyl chloride, polyvinylidene chloride, polyvinyl acetate, etc.): This subclass is indented under subclass 394. Subject matter wherein the preformed polymeric film or sheet is a vinyl polymer or copolymer such as polyvinyl chloride, polyvinylidene chloride, polyvinyl acetate, etc.

397 Fluorinated olefin polymer or copolymer sheet or film (e.g., Teflon®): This subclass is indented under subclass 394. Subject matter wherein the preformed polymeric film or sheet is a fluorinated olefin polymer or copolymer such as Teflon®; etc.
398 Olefin polymer or copolymer sheet or film (e.g., polypropylene, polyethylene, ethylene-butylene copolymer, etc.):
This subclass is indented under subclass 394. Subject matter wherein the preformed polymeric film or sheet is an olefin polymer or copolymer such as polypropylene, polyethylene, ethylene-butylene copolymer, etc.

399 Natural or synthetic rubber sheet or film:
This subclass is indented under subclass 394. Subject matter wherein the preformed polymeric film or sheet is a rubber, the rubber being natural or synthetic rubber.

400 Melt-blown nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is melt blown.

401 Spun-bonded nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is spun bonded.

402 Needled nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is needled.

403 Containing at least two chemically different strand or fiber materials:
This subclass is indented under subclass 402. Subject matter wherein the nonwoven fabric comprises two or more chemically different strands or fiber materials mechanically interengaged by needling.

404 Containing inorganic and polymeric strand or fiber materials:
This subclass is indented under subclass 403. Subject matter wherein the nonwoven fabric comprises at least one inorganic and at least one polymeric strand or fiber material mechanically interengaged by needling.

405 Containing polymeric and natural strand or fiber materials:
This subclass is indented under subclass 403. Subject matter wherein the nonwoven fabric comprises at least one polymeric and at least one natural strand or fiber material mechanically interengaged by needling.

406 Containing inorganic strand or fiber material:
This subclass is indented under subclass 403. Subject matter wherein the nonwoven fabric comprises two or more inorganic strand or fiber materials mechanically interengaged by needling.

407 Containing polymeric strand or fiber material:
This subclass is indented under subclass 403. Subject matter wherein the nonwoven fabric comprises two or more polymeric strand or fiber materials mechanically interengaged by needling.

408 Hydroentangled nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is hydroentangled.

409 Autogenously bonded nonwoven fabric:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is autogenously bonded (i.e., having heat- and/or pressure-promoted thermoplastic welding or solvent bonding).

410 Inorganic strand or fiber material only:
This subclass is indented under subclass 409. Subject matter wherein the nonwoven fabric contains only inorganic strand or fiber material.

411 Containing at least two chemically different strand or fiber materials:
This subclass is indented under subclass 409. Subject matter wherein the nonwoven fabric comprises two or more chemically different strands or fiber materials.

412 Including a paper layer:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is in association with a paper layer.

413 Including a wood containing layer:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric is in association with an additional layer containing wood.
414 Including strand or fiber material which is stated to have specific attributes (e.g., heat or fire resistance, chemical or solvent resistance, high absorption for aqueous compositions, water solubility, heat shrinkability, etc.):
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric includes strand or fiber material which has attributes such as heat or fire resistance, chemical or solvent resistance, high absorption for aqueous compositions, water solubility, heat shrinkability, etc., the strand or fiber material attributes being specifically stated.

(1) Note. Inherent properties of a given strand or fiber material should not be considered for classification purposes in this subclass, only specifically stated properties of the strand or fiber material.

415 Containing at least two chemically different strand or fiber materials:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric comprises two or more chemically different strand or fiber materials.

416 Containing polymeric and natural strand or fiber materials:
This subclass is indented under subclass 415. Subject matter wherein the nonwoven fabric comprises at least one polymeric and at least one natural strand or fiber material.

417 Including particulate material other than strand or fiber material:
This subclass is indented under subclass 327. Subject matter wherein the nonwoven fabric contains particulate material, the particulate material not being strand or fiber material.

FOREIGN ART COLLECTIONS

The definitions for FOR 100-FOR 167 below correspond to the definitions of the abolished subclasses (224-291) under Class 442 from which these collections were formed. See the Foreign Art Collection schedule for specific correspondences. [Note: The titles and definitions for indented art collections include all the details of the one(s) that are hierarchically superior.]

FOR 100 Textile, cloth or fabric (woven, knitted, etc., or nonwoven, but not paper):
Foreign art collection for a product in which the web or sheet is disclosed as useful in the manufacture of clothing, draperies, upholstery, shoes or their reinforcements, or tire fabric reinforcements or other such wearing or household uses such as roofing felt and is claimed as a textile, cloth or fabric or the equivalent thereof.

FOR 101 Embodying mechanically interengaged strands, strand-portions or strand-like strips (e.g., weave, knit, etc.):
Foreign art collection for a product not elsewhere provided for in which the structurally defined element or component comprises strands, strand-portions* or relatively narrow ribbon elements mechanically intertangled, interlooped, interwoven or intertwined.

FOR 102 Including strand-like strips:
Foreign art collection for a product wherein at least some of the cross-joined constituents are relatively narrow ribbon-like elements mechanically interengaged with similar elements or with strands or strand-portions.

FOR 103 Intertangled strands or strand-portions:
Foreign art collection for a product which consists of or includes a layer of strand material in a nonparallel arrangement with portions of the strand material interlocked with one another.

FOR 104 Glass strands or strand-portions:
Foreign art collection for a product in which the material comprises strands of glass.

FOR 105 Including structurally modified or defined strand:
Foreign art collection for a product in which constituent strands of the fabric are permanently either (a) deformed, (b) elongated, (c) enlarged in diameter, or (d) reduced in length following assembly of said strands to form the product or some physical or chemical characteristic of the strand is recited.

FOR 106 Elastic:
Foreign art collection for a product in which the layer or component, or a portion or strand thereof possesses a relatively high
degree of extensibility longitudinally and/or laterally of the web and the ability to resile from the extension with substantially no permanent deformation.

FOR 107 Including elastic strands:
Foreign art collection for a product comprising individually resilient strands or strand-portions.

FOR 108 With parallel strips or strands not interengaged with other strands:
Foreign art collection for a product which also includes a plurality of individual strands or strand-like strips lying side-by-side in a layer, whether touching or not and extending generally in the same direction without interengagement with any other strand or strip.

FOR 109 With paper or other fiber-containing layer or component:
Foreign art collection for a product wherein the strand layer or component is part of a composite web which also includes a layer or component which consists of or includes fibers*.

FOR 110 Needled:
Foreign art collection for a product in which adjacent layers of the composite web are secured to each other by intertanglement of the fibers of one layer with an adjacent layer, the intertanglement being disclosed as accomplished by the use of barbed needles passing through the layers.

FOR 111 And coated, impregnated or adhered:
Foreign art collection for a product in which the fibers or any of the layers or components are covered or saturated, at least in part, with extraneous material or in which layers or components or constituents thereof, are joined to each other by an adhesive substance.

FOR 112 Coated, impregnated or adhered:
Foreign art collection for a product in which the fibers or any of the layers or components are covered or saturated, at least in part, with extraneous material or in which at least some of the layers or components or constituents thereof are joined together by an adhesive substance.

FOR 113 Including particulate material:
Foreign art collection for a product which includes material in the form of small particles embedded in or adhered to the surface of the web.

FOR 114 Strand-type component within layer or between layers:
Foreign art collection for a product wherein the layer or component of interengaged strands is enclosed within a layer or between layers of nonstrand material.

FOR 115 With or between fiber-containing layer(s):
Foreign art collection for a product wherein the enclosing layer(s) consists of or includes fibers.

FOR 116 With particulate material:
Foreign art collection for a product which includes material in the form of small or minute particles incorporated as a distinct layer of the product, embedded therein or adhered to a surface matter.

FOR 117 Silicon containing particles (e.g., glass, talc, quartz, ceramic, etc.):
Foreign art collection for a product in which the particles contain silicon in either the elemental or compound form.

FOR 118 Metal or metal compound particles:
Foreign art collection for a product in which the particles contain a metal* in either its element or combined state.

FOR 119 Cellulosic particles (e.g., cork, etc.):
Foreign art collection for a product in which the particles contain the carbohydrate known as cellulose in either its natural or modified form.

FOR 120 Free carbon particles (e.g., graphite, etc.):
Foreign art collection for a product in which the particles consist of carbon in its element state or in any of its allotropic forms.

FOR 121 With coating, impregnation or bond:
Foreign art collection for a product in which the web or sheet or constituent thereof is fully covered or saturated with extraneous material or in which elements or compo-
nents are adhesively or cohesively joined to one another.

FOR 122 Three or more layers:
Foreign art collection for a product in which the sheet* or web* comprises at least three layers*.

FOR 123 Including netted or open mesh strand, filament or strip:
Foreign art collection for a product in which at least one layer comprises strands or filaments or fibers or strand-portions or strips which are tied at their intersections or are loosely interwoven to provide interstices of substantial size.

FOR 124 Cellulosic layer:
Foreign art collection for a product in which one of the layers comprises cellulose in either its natural or modified state.

FOR 125 Plural such layers:
Foreign art collection for a product comprising at least two layers of cellulosic material in either the natural or modified state.

FOR 126 Natural rubber layer:
Foreign art collection for a product in which one of the layers comprises the natural gum known as caoutchouc*, gutta percha* or balata* from the latex or sap of the “rubber” tree.

FOR 127 Interengaged strand component includes silicic or free metal material (e.g., asbestos, glass, etc.):
Foreign art collection for a product in which the component which incorporates the interengaged strands comprises a material containing silicon or a free metal*.

FOR 128 Interengaged strand component includes synthetic fiber or filament:
Foreign art collection for a product in which the component which incorporates the interengaged strands comprises a synthetic resin or polymer.

FOR 129 Knitted strand, filament, portion or strip:
Foreign art collection for a product wherein the strand-type component comprises interlocked loops of strand* material.

FOR 130 Impregnation on single layer only:
Foreign art collection for a product comprising a single layer of interlocked loops of strand-like material which is saturated or permeated with a fluid.

FOR 131 Netted or open mesh strand, filament, portion or strip:
Foreign art collection for a product which comprises strand-type component having crossed strands which are tied at their junctions, or loosely interwoven strands which are arranged to provide interstitial spaces of substantial size.

FOR 132 Metal:
Foreign art collection for a product in which the strands are metal*.

FOR 133 Particular or differential weave:
Foreign art collection for a product wherein the strand-type layer or component has a specifically claimed woven texture or wherein the woven texture of one component differs substantially from that of another component of the web.

FOR 134 Warp differs from weft:
Foreign art collection for a product in which all of the basic warp strands in a component differ from all of the basic weft strands, either physically, as in size or hardness, or with regard to the material from which they are made.

FOR 135 Materials differ:
Foreign art collection for a product in which the weft strands differ from the warp strands with regard to the material from which each is made.

FOR 136 Coated or impregnated base:
Foreign art collection for a product in which the web or sheet is fully covered or saturated with extraneous material.

FOR 137 Adhesive coating or impregnation:
Foreign art collection for a product wherein the extraneous material is capable of sticking to a surface to which it may be applied or of being activated so as to have such capability.
FOR 138 **Coating on surface of base:**
Foreign art collection for a product wherein the entraneous material covers the sheet or web, forming a layer on the surface thereof.

FOR 139 **Metal or compound thereof or natural rubber in coating:**
Foreign art collection for a product in which the layer contains either (1) a free or combined metal or (2) natural rubber.

FOR 140 **Base is cellulosic material:**
Foreign art collection for a product in which the web or sheet material is cellulosic* or is derived therefrom.

FOR 141 **Boase comprises synthetic strands, fibers or filaments:**
Foreign art collection for a product wherein the constituent strands comprise artificially produced fibers* or filaments*.

FOR 142 **Silicone, silane or siloxane in coating:**
Foreign art collection for a product in which the coating comprises (1) a compound similar to hydrocarbons in which the tetravalent silicon replaces the carbon atom, as SiH$_4$--monosilane or siliconmethane, (2) an elastomeric in which the carbon linkages of a polymerized hydrocarbon are replaced by Si-O linkages or (3) any of a class of compounds that contain alternate silicon and oxygen atoms in either a linear structure (such as H$_2$Si(OSiH$_2$)$_n$OSiH$_3$) or a cyclic structure as H$_2$(SiO)$_n$ and that may also contain methyl, phenyl or other organic radicals in place of some or all of the hydrogen atoms and are made by hydrolysis of chlorosilanes or alkoxy-silanes.

FOR 143 **Polyamide or polyimide (e.g., nylon, etc.) strands:**
Foreign art collection for a product in which the synthetic strand comprises polyamide* or polyimide*.

FOR 144 **Glass fibers, filaments or strands:**
Foreign art collection for a product wherein the fibers or filaments are finely attenuated glass.

FOR 145 **Keyed by penetration of interstices:**
Foreign art collection for a product in which a nonstrand layer or component has portions which enter the reticular spaces of a woven or braided layer or component.

FOR 146 **Wool substrate impregnated:**
Foreign art collection for a product in which the component comprises the hair from a sheep, or from some other animal whose hair is similar in texture to that of sheep and is permeated or saturated at least in part with an extraneous material.

FOR 147 **Asbestos fiber base impregnated:**
Foreign art collection for a product in which the component comprises fibers from the mineral asbestos and is permeated or saturated at least in part with an extraneous material.

FOR 148 **Synthetic filament base impregnated:**
Foreign art collection for a product in which the component comprises artificially or man-made fibers or filaments and is saturated or permeated with extraneous material.

FOR 149 **Glass:**
Foreign art collection for a product in which the synthetic fiber or filament is glass*.

FOR 150 **Cellulosic monolayer impregnated:**
Foreign art collection for a product wherein the web or sheet material is a single layer of cellulose or is derived from cellulose and is saturated or permeated.

FOR 151 **Impregnation contains metallic compound or free element:**
Foreign art collection for a product in which the extraneous material contains a metal* in either its free or combined form.

FOR 152 **Phosphorous containing impregnant:**
Foreign art collection for a product in which the extraneous material contains a compound of phosphorus.

FOR 153 **With halogen:**
Foreign art collection for a product in which the extraneous material also contains a halogen, which may be part of the phosphorous compound.
FOR 154  Aldehyde or ketone condensation product:
Foreign art collection for a product in which the component is saturated or permeated at least in part with an extraneous material which contains an aldehyde or ketone condensation* product.

FOR 155  Quaternary ammonium compound in impregnant:
Foreign art collection for a product in which the component is saturated or permeated with an extraneous material which contains an organic nitrogen compound in which the molecular structure includes a central nitrogen atom joined to four organic groups.

FOR 156  Felt fabric:
Foreign art collection for a product comprising a fabric made of fibers which have been worked together by pressure, heat or other means without weaving or knitting.

FOR 157  With particulate matter:
Foreign art collection for a product in which the fabric also contains small pieces or fragments of solid matter.

FOR 158  At least three layers:
Foreign art collection for a product which consists of at least three layers of material, at least one such layer comprising felt.

FOR 159  With particulate matter:
Foreign art collection for a product which comprises small bits or fragments of solid matter.

FOR 160  Fabric with plural layers:
Foreign art collection for a product which comprises a fabric with at least two additional layers thereon.

FOR 161  At least one metal or glass:
Foreign art collection for a product wherein at least one of the layers consists of or includes a metal* or a mixture of (1) fused silica, and (2) alkali and alkaline silicates, commonly known as glass*.

FOR 162  At least one synthetic resin or polymer:
Foreign art collection for a product wherein at least one of the layers consist of or includes a synthetic resin, that is, a complex organic compound produced from ingredients which are nonresinous in themselves and which simulates a natural resin in that it is usually adapted for forming films or for use as binders in plastic compositions or a polymer, that is, a substance, often synthetic, composed of giant molecules that have been formed by the union of a considerable number of simple molecules with one another.

FOR 163  Polyester, polyamide or polyimide:
Foreign art collection for a product wherein the polymeric compound is one (1) containing ester groups through which the monomers are linearly linked to each other or (2) amide or imide groups through which the monomers are linearly linked.

FOR 164  Bonded or coated fibers:
Foreign art collection for a product wherein the fibers of the textile, cloth or fabric are covered at least in part with extraneous material or are adhesively or cohesively joined to each other.

FOR 165  Fabric has impregnation and/or single coating:
Foreign art collection for a product comprising a nonwoven fabric which has (1) an impregnation, (2) a single coating thereon, or (3) combination of (1) and (2) above.

FOR 166  Synthetic resin or polymer in impregnation or coating:
Foreign art collection for a product wherein the impregnant or coating consists of or includes nonnatural resin, i.e., a complex organic compound produced from ingredients which are nonresinous in themselves and which simulates a natural resin in that it is usually adapted for forming films or for use as binders in plastic compositions, or a polymer, that is, a substance, often synthetic, composed of giant molecules that have been formed by the union of a considerable number of simple molecules with one another.

FOR 167  Comprising bitumen, tar, natural gum, natural oil, resin or wax in coating or impregnant:
Foreign art collection for a product wherein the impregnant or coating consists of or
includes a (bituminous or tarry residue*),
natural gum*, natural oil*, resin* or wax*.

END