

C08C

TREATMENT OR CHEMICAL MODIFICATION OF RUBBERS

Definition statement

This place covers:

- processes directed to natural rubber or to conjugated diene rubber
- treatment of diene rubber
- chemical modification of diene rubber

Relationships with other classification places

Homo- or copolymers of dienes are classified in [C08F 36/00](#), [C08F 136/00](#), [C08F 236/00](#).

References

Limiting references

This place does not cover:

Post-polymerisation treatment of addition polymers other than dienes	C08F 6/00 - C08F 6/28
Chemical modification of addition polymers other than dienes	C08F 8/00
Preparation of living diene homo- or copolymers using anionic catalysts	C08F 36/04
Graft polymers	C08F 279/00
Coupling of polymers	C08G 81/02
Compositions of diene rubbers	C08L 7/00 - C08L 21/00
Compositions of modified rubber	C08L 15/00
Compositions of rubber characterised by functional groups, e.g. telechelic diene polymers	C08L 19/00
Compositions of copolymers of ethene-propene or ethene-propene-diene, e.g. EPM or EPDM rubber	C08L 23/16
Compositions of copolymers of isobutene with minor part of conjugated dienes monomers, e.g. butyl rubber	C08L 23/22
Compositions of unconjugated diene polymers	C08L 47/00

Special rules of classification

The IPC group **C08C1/16** is covered by [C08C 1/14](#).

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Diene rubber	Homopolymer or copolymer of compounds having as the major part one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds
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Synonyms and Keywords

In patent documents, the following abbreviations are often used:

BR	Butadiene rubber
CR	Chloroprene rubber

EPM or EPDM	Ethene-propene or ethene-propene-diene rubber
IIR	Butyl rubber
IR	Isoprene rubber
NBR	Acrylonitrile butadiene rubber
NR	Natural rubber
SBR	Styrene butadiene rubber

C08C 1/00

Treatment of rubber latex

Definition statement

This place covers:

Chemical or physical treatment of rubber latex before or during concentration, e.g. purifying, deproteinising, preservation of rubber latex or concentrating

Coagulation

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Preserving ingredients	C08K
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C08C 2/00

Treatment of rubber solutions

Definition statement

This place covers:

Treatment of rubber solutions, e.g. by purification, removal of catalyst residues or wining of rubber from solutions.

C08C 3/00

Treatment of coagulated rubber

Definition statement

This place covers:

Treatment of coagulated rubber, e.g. by purification

C08C 19/00

Chemical modification of rubber

Definition statement

This place covers:

Chemical modification of rubber, e.g. hydrogenation, oxidation, depolymerisation, isomerisation, cyclisation, incorporation of halogen, sulphur, nitrogen, phosphorus, silicon or metal atoms into the molecule, reaction with compounds containing carbon-to-carbon unsaturated bonds or addition of a reagent which reacts with a hetero atom or a group containing hetero atoms of the macromolecule.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Crosslinking agent, other than provided for by group C08C 19/30	C08K
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Special rules of classification

In [C08C 19/00](#) - [C08C 19/44](#), in the absence of an indication to the contrary a process is classified in the last appropriate place.

C08C 19/44

of polymers containing metal atoms exclusively at one or both ends of the skeleton

Definition statement

This place covers:

Processes directed to the addition of a reagent which reacts with a hetero atom or a group containing heteroatoms of the macromolecule containing metal atoms exclusively at one or both ends of the skeleton, i.e. chemical reaction at the end of polymerchains prepared by living polymerization.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Heteroatoms	Refers to any atoms at the end of the skeleton chain not being carbon or hydrogen. Metals are also hetero-atoms.
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