

C05C

NITROGENOUS FERTILISERS

Definition statement

This place covers:

- Fertiliser compositions containing nitrogen, processes and apparatus for obtaining them;
- Ammonium nitrate fertilisers;
- Fertilisers containing other salts of ammonia or ammonia itself;
- Fertilisers containing other nitrates;
- Fertilisers containing calcium or other cyanamides;
- Fertilisers containing urea or urea compounds;
- Other nitrogenous fertilisers.

Relationships with other classification places

Treating manure; apparatus for distributing fertiliser [A01C](#).

Soil-cultivation substrates [A01G 9/00](#).

Plant growth regulators [A01N](#).

Soil-conditioning or soil-stabilising materials [C09K 17/00](#).

Any apparatus for preparing fertilisers may be classified in those areas of [C05](#) that are specific for such apparatus – e.g., [C05B 1/10](#) – apparatus for the manufacture of superphosphates. Otherwise, individual apparatus should be classified in the relevant area of the IPC, e.g., [F26B 7/00](#).

Whilst the subject matter of [C05C](#) deals with nitrogenous fertilisers per se, [A01C 3/00](#) deals with methods of treating manure/methods of manuring per se and [A01C 21/00](#) deals with methods of fertilising per se.

References

Limiting references

This place does not cover:

Inorganic fertilisers not covered by subclasses C05B , C05C ; fertilisers producing carbon dioxide	C05D
Organic fertilisers not covered by subclasses C05B , C05C , e.g. fertilisers from waste or refuse	C05F

Informative references

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

Harrows with means for distributing fertilisers	A01B 25/00
Fertilisers distributors	A01C 15/00
Mowers combined with dispensing apparatus, e.g. for fertilisers	A01D 43/14
Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops or seaweed; forestry; watering	A01G
Root feeders; injecting fertilisers into roots	A01G 29/00
Processes or devices for granulating materials, in general	B01J 2/00
Nitrogen, compounds thereof	C01B 21/00

Ammonia; cyanogen; compounds thereof	C01C
--------------------------------------	----------------------

Special rules of classification

An ingredient in a mixture of fertilisers, or a single fertiliser which contains more than one of the chemical elements on which the subdivision is based, is classified only in the first of the appropriate places. Thus, a nitrophosphate or an ammoniated superphosphate is classified in [C05B](#) but not in [C05C](#), magnesium phosphate is classified in [C05B](#) but not in [C05D](#), and calcium cyanamide in [C05C](#) but not in [C05D](#).

Information relative to the form in which the fertilizer is presented, e.g. granulation, coating, etc. is always given in addition to the chemical composition of the fertilizers.

Any ingredient in a mixture, which is considered to present information of interest for search, is also classified using a combination of classification symbols. If a document concerns embodiments comprising mixtures whose elements are covered individually by different subclasses, groups or subgroups, the document is classified with a Combination-set.

The following rules apply:

- The first element of the Combination-set corresponds to the first relevant (sub)group mentioned in the classification scheme independently of the importance or relevance of the element in the whole fertilizer mixture;
- the following element or elements of the Combination_set are added sequentially in the order in which they appear in the classification scheme to the first element using a ",".

Example: a fertilizer containing a mixture of superphosphate ([C05B 1/02](#)), ammonium nitrate ([C05C 1/00](#)) and potassium chloride ([C05D 1/02](#)) will be given the Combination-set [C05B 1/02](#), [C05C 1/00](#), [C05D 1/02](#).

Example: a fertilizer containing a mixture of either superphosphate ([C05B 1/02](#)) or ammonium nitrate ([C05C 1/00](#)) with potassium chloride ([C05D 1/02](#)) will be given the Combination-set [C05B 1/02](#), [C05D 1/02](#) and [C05C 1/00](#), [C05D 1/02](#).

Glossary of terms

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

Fertiliser (fertiliser material)	Natural or artificial substance containing the chemical elements that improve growth and productiveness of plants.
----------------------------------	--

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "fertiliser" and "plant nutrient "
- "Amendment", "Plant food", "Agricultural chemical" and "Fertiliser"
- "Ammonia", "Ammonium hydroxide" and "Ammonia water"

In patent documents, the following words/expressions are often used with the meaning indicated:

"enrichment"	"fertiliser".
"soil amendment"	" composition capable of modifying the chemical (pH) or physical (structure) condition of soils for agricultural purposes".