

## C05B

### PHOSPHATIC FERTILISERS

#### Definition statement

*This place covers:*

Fertilizer compositions containing phosphorus in any organic or inorganic form, processes and apparatus for obtaining them.

#### 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](#).

#### References

##### Limiting references

*This place does not cover:*

Nitrogenous fertilisers	<a href="#">C05C</a>
Inorganic fertilisers not covered by subclasses <a href="#">C05B</a> , <a href="#">C05C</a> ; fertilisers producing carbon dioxide	<a href="#">C05D</a>
Organic fertilisers not covered by subclasses <a href="#">C05B</a> , <a href="#">C05C</a> , e.g. fertilisers from waste or refuse	<a href="#">C05F</a>

##### Informative references

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

Harrows with means for distributing fertilisers	<a href="#">A01B 25/00</a>
Fertilisers distributors	<a href="#">A01C 15/00</a>
Mowers combined with dispensing apparatus, e.g. for fertilisers	<a href="#">A01D 43/14</a>
Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops or seaweed; forestry; watering	<a href="#">A01G</a>
Root feeders; injecting fertilisers into roots	<a href="#">A01G 29/00</a>
Phosphorus; compounds thereof	<a href="#">C01B 25/00</a>

#### 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.
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## 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"

*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".

## C05B 1/00

**Superphosphates, i.e. fertilisers produced by reacting rock or bone phosphates with sulfuric or phosphoric acid in such amounts and concentrations as to yield solid products directly**

### Definition statement

*This place covers:*

Fertilisers produced by reacting rock or bone phosphates with sulphuric or phosphoric acid in such amounts and concentrations as to yield solid products directly and apparatus for their manufacture.

## References

### Limiting references

*This place does not cover:*

Fertilizers based essentially on ammonium orthophosphate	<a href="#">C05B 7/00</a>
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## C05B 3/00

**Fertilisers based essentially on di-calcium phosphate ([C05B 11/00](#) takes precedence)**

## References

### Limiting references

*This place does not cover:*

Di calcium phosphate fertilisers produced by wet treating raw materials with acids or alkalis	<a href="#">C05B 11/00</a>
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## C05B 5/00

**Thomas phosphate; Other slag phosphates**

### Definition statement

*This place covers:*

Fertilizers obtained from phosphate containing slags, waste or by products of metallurgical processes with fertilizer value.

### Glossary of terms

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

Thomas phosphate; Thomas slag	slag calcium phosphate obtained in steelmaking converters from pig iron with high phosphorus acid content
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### Synonyms and Keywords

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

- "Thomas phosphate", "Thomas slag" and "converter slag"

## C05B 7/00

**Fertilisers based essentially on alkali or ammonium orthophosphates ([C05B 11/00](#) takes precedence)**

## References

### Limiting references

*This place does not cover:*

Alkali or ammonium orthophosphates produced by wet or leach treatment with acids or alkalis	<a href="#">C05B 11/00</a>
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**C05B 9/00**

**Fertilisers based essentially on phosphates or double phosphates of magnesium ([C05B 11/00](#) takes precedence)**

**References****Limiting references**

*This place does not cover:*

Fertilisers based essentially on phosphates or double phosphates of magnesium produced by wet or leach treatment with acids or alkalis	<a href="#">C05B 11/00</a>
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**C05B 13/00**

**Fertilisers produced by pyrogenic processes from phosphatic materials**

**Definition statement**

*This place covers:*

Fertilisers produced by pyrogenic processes from phosphatic materials like rock phosphates or metallic phosphorus compounds such as to rend polyphosphate fertilisers.

This group mainly contains polyphosphates, and also any other fertilizers produced from pyrogenic processes from phosphate fertilizers

**C05B 15/00**

**Organic phosphatic fertilisers (bone meal [C05B 17/00](#))**

**Definition statement**

*This place covers:*

Phosphatic fertilisers of organic nature.

**References****Limiting references**

*This place does not cover:*

Bone meal	<a href="#">C05B 17/00</a>
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**C05B 17/00**

**Other phosphatic fertilisers, e.g. soft rock phosphates, bone meal**

**Definition statement**

*This place covers:*

Other phosphatic fertilisers not classified in the previous groups, e.g. soft rock phosphates, bone meal, phosphite fertilisers.

**C05B 19/00**

**Granulation or pelletisation of phosphatic fertilisers, other than slag  
(granulating apparatus [B01J 2/00](#); granulating slag [C04B](#))**

**Definition statement**

*This place covers:*

Exclusively granulation or pelletisation of fertilizers belonging to any of the groups [C05B](#).

**References****Limiting references**

*This place does not cover:*

Granulating apparatus	<a href="#">B01J 2/00</a>
Granulating slag	<a href="#">C04B</a>
Process in general for granulating fertilizers	<a href="#">C05G 5/12</a>