

CPC**COOPERATIVE PATENT CLASSIFICATION****F05C****INDEXING SCHEME RELATING TO MATERIALS, MATERIAL PROPERTIES OR MATERIAL CHARACTERISTICS FOR MACHINES, ENGINES OR PUMPS OTHER THAN NON-POSITIVE-DISPLACEMENT MACHINES OR ENGINES****NOTE**

This subclass constitutes an internal scheme for indexing only.

F05C 2201/00**Metals**

- F05C 2201/02 . Light metals
- F05C 2201/021 .. Aluminium
- F05C 2201/023 .. Beryllium
- F05C 2201/025 .. Boron
- F05C 2201/026 .. Lithium
- F05C 2201/028 .. Magnesium
- F05C 2201/04 . Heavy metals
- F05C 2201/0403 .. Refractory metals, e.g. V, W
- F05C 2201/0406 ... Chromium
- F05C 2201/0409 ... Molybdenum
- F05C 2201/0412 ... Titanium
- F05C 2201/0415 ... Zirconium
- F05C 2201/0418 .. Noble metals
- F05C 2201/0421 ... Silver
- F05C 2201/0424 ... Gold
- F05C 2201/0427 ... Platinum group, e.g. Pt, Ir
- F05C 2201/043 .. Rare earth metals, e.g. Sc, Y
- F05C 2201/0433 .. Iron group; Ferrous alloys, e.g. steel
- F05C 2201/0436 ... Iron
- F05C 2201/0439 Cast iron
- F05C 2201/0442 Spheroidal graphite cast iron, e.g. nodular iron, ductile iron
- F05C 2201/0445 Austempered ductile iron (ADI)
- F05C 2201/0448 ... Steel
- F05C 2201/0451 Cast steel
- F05C 2201/0454 Case-hardened steel
- F05C 2201/0457 Cemented steel
- F05C 2201/046 Stainless steel or inox, e.g. 18-8
- F05C 2201/0463 ... Cobalt
- F05C 2201/0466 ... Nickel

F05C 2201/0469	..	Other heavy metals
F05C 2201/0472	...	Cadmium
F05C 2201/0475	...	Copper or alloys thereof
F05C 2201/0478	Bronze (Cu/Sn alloy)
F05C 2201/0481	Brass (Cu/Zn alloy)
F05C 2201/0484	Nickel-Copper alloy, e.g. monel
F05C 2201/0487	...	Manganese
F05C 2201/049	...	Lead
F05C 2201/0493	...	Tin
F05C 2201/0496	...	Zinc
F05C 2201/90	.	Alloys not otherwise provided for
F05C 2201/903	..	Aluminium alloy, e.g. AlCuMgPb F34,37
F05C 2201/906	..	Phosphor-bronze alloy

Guidance heading: Inorganic materials

F05C 2203/00		Non-metallic inorganic materials
F05C 2203/02	.	Glass
F05C 2203/04	.	Phosphor
F05C 2203/06	.	Silicon
F05C 2203/08	.	Ceramics; Oxides
F05C 2203/0804	..	Non-oxide ceramics
F05C 2203/0808	...	Carbon, e.g. graphite
F05C 2203/0813	...	Carbides
F05C 2203/0817	of silicon
F05C 2203/0821	of titanium, e.g. TiC
F05C 2203/0826	of wolfram, e.g. tungsten carbide
F05C 2203/083	...	Nitrides
F05C 2203/0834	of aluminium
F05C 2203/0839	of boron
F05C 2203/0843	of silicon
F05C 2203/0847	of titanium
F05C 2203/0852	of zirconium
F05C 2203/0856	...	Sulfides
F05C 2203/086	of molybdenum
F05C 2203/0865	..	not used, see subgroups
F05C 2203/0869	...	Aluminium oxide
F05C 2203/0873	Sapphire
F05C 2203/0878	...	Aluminium titanate
F05C 2203/0882	...	Carbon, e.g. graphite

F05C 2203/0886	...	Silica
F05C 2203/0891	...	Zinc oxide
F05C 2203/0895	...	Zirconium oxide

F05C 2211/00 **Inorganic materials not otherwise provided for**

F05C 2221/00 **Leather**

Guidance heading: **Organic materials**

F05C 2223/00 **Cellulosic materials, e.g. wood**

F05C 2225/00 **Synthetic polymers, e.g. plastics; Rubber**

- F05C 2225/02 . Rubber
- F05C 2225/04 . PTFE (PolyTetraFluorEthylene)
- F05C 2225/06 . Polyamides, e.g. NYLON
- F05C 2225/08 . Thermoplastics
- F05C 2225/10 . Polyimides, e.g. Aurum
- F05C 2225/12 . Polyetheretherketones, e.g. PEEK

F05C 2231/00 **Organic materials not otherwise provided for**

F05C 2251/00 **Material properties**

- F05C 2251/02 . Elasticity
- F05C 2251/04 . Thermal properties
- F05C 2251/042 .. Expansivity
- F05C 2251/044 ... similar
- F05C 2251/046 ... dissimilar
- F05C 2251/048 .. Heat transfer
- F05C 2251/06 . Reflective properties
- F05C 2251/08 . Shape memory
- F05C 2251/10 . Hardness
- F05C 2251/12 . Magnetic properties
- F05C 2251/125 .. non-magnetic
- F05C 2251/14 . Self lubricating materials; Solid lubricants

Guidance heading: **Material properties or characteristics**

F05C 2253/00 **Other material characteristics; Treatment of material**

- F05C 2253/02 . Fabric
- F05C 2253/025 .. woven
- F05C 2253/04 . Composite, e.g. fibre-reinforced

F05C 2253/06	. Amorphous
F05C 2253/08	. Crystalline
F05C 2253/083	. . Directionally-solidified crystalline structure
F05C 2253/0831	. . . monocrystalline
F05C 2253/10	. Syntactic
F05C 2253/12	. Coating
F05C 2253/14	. Foam
F05C 2253/16	. Fibres
F05C 2253/18	. Filler
F05C 2253/20	. Resin
F05C 2253/22	. Reinforcements
F05C 2253/24	. Heat treatment