Symbol	Typ	Titel
C	**Sektion**	**CHEMISTRY; METALLURGY**
C01	**Untersektion**	**CHEMISTRY**
C01	**Klasse**	**INORGANIC CHEMISTRY (processing powders of inorganic compounds preparatory to the manufacturing of ceramic products C04B 35/00; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C21B , C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)**
C01F	**Unterklasse**	**COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS (metal hydrides C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; sulfides or polysulfides of magnesium, calcium, strontium, or barium C01B 17/42; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; binary compounds of nitrogen with metals C01B 21/06; azides C01B 21/08; metal amides C01B 21/092; nitrites C01B 21/50; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; carbides C01B 31/30; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00; compounds having molecular sieve properties but not having base-exchange properties C01B 37/00; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, C01B 39/00; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20)**
C01F 1/00	**Hauptgruppe**	**Methods of preparing compounds of the metals beryllium, magnesium, aluminium, calcium, strontium, barium, radium, thorium, or the rare earths, in general**
C01F 3/00	**Hauptgruppe**	**Compounds of beryllium**
C01F 3/02	1-Punkt Untergruppe	. Oxides; Hydroxides [3]
C01F 5/00	**Hauptgruppe**	**Compounds of magnesium**
C01F 5/02	1-Punkt Untergruppe	. Magnesia
C01F 5/04	2-Punkt Untergruppe	. . by oxidation of metallic magnesium
C01F 5/06	2-Punkt Untergruppe	. . by thermal decomposition of magnesium compounds (calcining magnesite or dolomite C04B 2/10)
C01F 5/08	3-Punkt Untergruppe	. . . by calcining magnesium hydroxide
C01F 5/10	3-Punkt Untergruppe	. . . by thermal decomposition of magnesium chloride with water vapour
C01F 5/12	3-Punkt Untergruppe	. . . by thermal decomposition of magnesium sulfate, with or without reduction
C01F 5/14	1-Punkt Untergruppe	. Magnesium hydroxide
C01F 5/16	2-Punkt Untergruppe	. . by treating magnesia, e.g. calcined dolomite, with water or solutions of salts not containing magnesium
C01F 5/20	2-Punkt Untergruppe	. . by precipitation from solutions of magnesium salts with ammonia
C01F 5/22	2-Punkt Untergruppe	. . from magnesium compounds with alkali hydroxides or alkaline earth oxides or hydroxides
C01F 5/24	1-Punkt Untergruppe	. Magnesium carbonates
C01F 5/26	1-Punkt Untergruppe	. Magnesium halides
C01F 5/28	2-Punkt Untergruppe	. . Fluorides
C01F 5/30	2-Punkt Untergruppe	. . Chlorides

Symbol	Typ	Titel
C01F 5/32	3-Punkt Untergruppe	. . . Preparation of anhydrous magnesium chloride by chlorinating magnesium compounds
C01F 5/34	3-Punkt Untergruppe	. . . Dehydrating magnesium chloride containing water of crystallisation
C01F 5/36	2-Punkt Untergruppe	. . Bromides
C01F 5/38	1-Punkt Untergruppe	. Magnesium nitrates
C01F 5/40	1-Punkt Untergruppe	. Magnesium sulfates (double sulfates of magnesium with sodium or potassium C01D 5/12 , with other alkali metals C01D 15/06 , C01D 17/00) [3]
C01F 5/42	1-Punkt Untergruppe	. Magnesium sulfites
C01F 7/00	**Hauptgruppe**	**Compounds of aluminium**
C01F 7/02	1-Punkt Untergruppe	. Aluminium oxide; Aluminium hydroxide; Aluminates
C01F 7/04	2-Punkt Untergruppe	. . Preparation of alkali metal aluminates; Aluminium oxide or hydroxide therefrom
C01F 7/06	3-Punkt Untergruppe	. . . by treating aluminous minerals with alkali hydroxide
C01F 7/08	3-Punkt Untergruppe	. . . by treating aluminous minerals with sodium carbonate
C01F 7/10	3-Punkt Untergruppe	. . . by treating aluminous minerals with alkali sulfates and reducing agents
C01F 7/12	3-Punkt Untergruppe	. . . Alkali metal aluminates from alkaline earth metal aluminates
C01F 7/14	3-Punkt Untergruppe	. . . Aluminium oxide or hydroxide from alkali metal aluminates
C01F 7/16	2-Punkt Untergruppe	. . Preparation of alkaline earth metal aluminates; Aluminium oxide or hydroxide therefrom
C01F 7/18	3-Punkt Untergruppe	. . . Aluminium oxide or hydroxide from alkaline earth metal aluminates
C01F 7/20	2-Punkt Untergruppe	. . Preparation of aluminium oxide or hydroxide from aluminous ores with acids or salts
C01F 7/22	3-Punkt Untergruppe	. . . with halides
C01F 7/24	3-Punkt Untergruppe	. . . with nitric acid or nitrogen oxides
C01F 7/26	3-Punkt Untergruppe	. . . with sulfuric acids or sulfates
C01F 7/28	3-Punkt Untergruppe	. . . with sulfurous acid
C01F 7/30	2-Punkt Untergruppe	. . Preparation of aluminium oxide or hydroxide by thermal decomposition of aluminium compounds
C01F 7/32	3-Punkt Untergruppe	. . . of sulfates
C01F 7/34	2-Punkt Untergruppe	. . Preparation of aluminium hydroxide by precipitation from solutions containing aluminium salts
C01F 7/36	3-Punkt Untergruppe	. . . from organic aluminium salts
C01F 7/38	2-Punkt Untergruppe	. . Preparation of aluminium oxide by thermal reduction of aluminous minerals
C01F 7/40	3-Punkt Untergruppe	. . . in the presence of aluminium sulfide
C01F 7/42	2-Punkt Untergruppe	. . Preparation of aluminium oxide or hydroxide from metallic aluminium, e.g. by oxidation
C01F 7/44	2-Punkt Untergruppe	. . Dehydration of aluminium hydroxide
C01F 7/46	2-Punkt Untergruppe	. . Purification of aluminium oxide, aluminium hydroxide or aluminates [5]
C01F 7/47	3-Punkt Untergruppe	. . . of aluminates [5]
C01F 7/48	1-Punkt Untergruppe	. Aluminium halides

Symbol	Typ	Titel
C01F 7/50	2-Punkt Untergruppe	. . Fluorides
C01F 7/52	3-Punkt Untergruppe	. . . Double compounds containing both fluorine and other acid groups
C01F 7/54	3-Punkt Untergruppe	. . . Double compounds containing both aluminium and alkali metals or alkaline earth metals
C01F 7/56	2-Punkt Untergruppe	. . Chlorides (containing fluorine C01F 7/52) [3]
C01F 7/58	3-Punkt Untergruppe	. . . Preparation of anhydrous aluminium chloride
C01F 7/60	4-Punkt Untergruppe	. . . . from oxygen-containing aluminium compounds
C01F 7/62	3-Punkt Untergruppe	. . . Purification
C01F 7/64	2-Punkt Untergruppe	. . Bromides (containing fluorine C01F 7/52) [3]
C01F 7/66	1-Punkt Untergruppe	. Aluminium nitrates (containing fluorine C01F 7/52) [3]
C01F 7/68	1-Punkt Untergruppe	. Aluminium compounds containing sulfur (containing fluorine C01F 7/52) [3]
C01F 7/70	2-Punkt Untergruppe	. . Sulfides
C01F 7/72	2-Punkt Untergruppe	. . Sulfites
C01F 7/74	2-Punkt Untergruppe	. . Sulfates
C01F 7/76	3-Punkt Untergruppe	. . . Double salts, e.g. alums
C01F 11/00	**Hauptgruppe**	**Compounds of calcium, strontium, or barium (C01F 7/00 takes precedence) [3]**
C01F 11/02	1-Punkt Untergruppe	. Oxides or hydroxides (production of lime C04B 2/00)
C01F 11/04	2-Punkt Untergruppe	. . by thermal decomposition
C01F 11/06	3-Punkt Untergruppe	. . . of carbonates
C01F 11/08	2-Punkt Untergruppe	. . by reduction of sulfates
C01F 11/10	2-Punkt Untergruppe	. . from sulfides
C01F 11/12	2-Punkt Untergruppe	. . from silicates
C01F 11/16	2-Punkt Untergruppe	. . Purification
C01F 11/18	1-Punkt Untergruppe	. Carbonates
C01F 11/20	1-Punkt Untergruppe	. Halides
C01F 11/22	2-Punkt Untergruppe	. . Fluorides
C01F 11/24	2-Punkt Untergruppe	. . Chlorides
C01F 11/26	3-Punkt Untergruppe	. . . from sulfides
C01F 11/28	3-Punkt Untergruppe	. . . by chlorination of alkaline earth metal compounds
C01F 11/30	3-Punkt Untergruppe	. . . Concentrating; Dehydrating; Preventing the absorption of moisture or caking
C01F 11/32	3-Punkt Untergruppe	. . . Purification
C01F 11/34	2-Punkt Untergruppe	. . Bromides
C01F 11/36	1-Punkt Untergruppe	. Nitrates

Symbol	Typ	Titel
C01F 11/38	2-Punkt Untergruppe	. . Preparation with nitric acid or nitrogen oxides
C01F 11/40	2-Punkt Untergruppe	. . Preparation by double decomposition with nitrates
C01F 11/42	2-Punkt Untergruppe	. . Double salts (with magnesium C01F 5/38)
C01F 11/44	2-Punkt Untergruppe	. . Concentrating; Crystallising; Dehydrating; Preventing the absorption of moisture or caking
C01F 11/46	1-Punkt Untergruppe	. Sulfates (dehydration of gypsum C04B 11/02)
C01F 11/48	1-Punkt Untergruppe	. Sulfites
C01F 13/00	**Hauptgruppe**	**Compounds of radium**
C01F 15/00	**Hauptgruppe**	**Compounds of thorium**
C01F 17/00	**Hauptgruppe**	**Compounds of the rare-earth metals, i.e. scandium, yttrium, lanthanum, or the group of the lanthanides**