SECTION C — CHEMISTRY; METALLURGY

CO4 CEMENTS; CONCRETE; ARTIFICIAL STONE; CERAMICS; REFRACTORIES

Note(s)

This class does not cover mechanical features provided for elsewhere, e.g. mechanical working B28, kilns F27.

C04B LIME; MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE; CERAMICS (devitrified glass-ceramics C03C 10/00); REFRACTORIES (alloys based on refractory metals C22C); TREATMENT OF NATURAL STONE [4]

Note(s) [6]

In this subclass, the following terms or expressions are used with the meanings indicated:

- "fillers" includes pigments, aggregates and fibrous reinforcing materials;
 - "active ingredients" includes processing aids or property improvers, e.g. grinding aids used after the burning process or used in the absence of a burning process;
- "mortars", "concrete" and "artificial stone" are to be considered as a single group of materials, and therefore, in the absence of an indication to be contrary, they include mortar, concrete and other cementitious compositions.

Subclass index

LIME, MAGNESIA; SLAG	2/00, 5/00
CEMENTS	7/00-12/00
MORTARS; CONCRETE; ARTIFICIAL STONE	
Compositions	26/00-32/00
CompositionsFillers	14/00-20/00
Active ingredients	22/00, 24/00
Porous products	38/00
Influencing or modifying the properties of mortars	40/00
After-treatment	41/00
CERAMICS	
Clay-wares	33/00
Other ceramics	35/00
Joining	37/00
Porous products	38/00
Porous products	41/00
TREATMENT OF NATURAL STONE	41/00

Lime; Magnesia; Slag

2/00 Lime, magnesia or dolomite [4, 2006.01]

2/02 • Lime [4, 2006.01]

2/04 • • Slaking [4, 2006.01]

2/06 • • • with addition of substances, e.g. hydrophobic agents [4, 2006.01]

2/08 • • • Devices therefor **[4, 2006.01]**

 Preheating, burning, calcining or cooling (decarbonation during burning of cement raw materials C04B 7/43) [4, 2006.01]

2/12 • in shaft or vertical furnaces **[4, 2006.01]**

5/00 Treatment of molten slag (manufacture of slag wool C03B; treatment of slag in or for the production of metals C21B, C22B); Artificial stone from molten slag [1, 4, 2006.01]

- Granulating (granulating apparatus B01J 2/00);
 Dehydrating; Drying [1, 2006.01]
- Ingredients, other than water, added to the molten slag; Treatment with gases or gas generating material, e.g. to obtain porous slag [4, 2006.01]

Cements

Note(s) [4]

In groups C04B 7/00-C04B 32/00, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

7/00 Hydraulic cements [1, 2006.01]

7/02 • Portland cement **[1, 2006.01]**

7/04	• using raw materials containing	9/20	Manufacture, e.g. preparing the batches (preheating, burning, calcining or cooling lime stone, magnesite
7/06	gypsum [1, 2006.01] • using alkaline raw materials [1, 2006.01]		or dolomite C04B 2/10) [1, 2006.01]
7/12	Natural pozzuolanas; Natural pozzuolana		
.,	cements [1, 4, 2006.01]	11/00	Calcium sulfate cements [1, 2006.01]
7/13	• • Mixtures thereof with inorganic cementitious	11/02	• Dehydrating gypsum [1, 2006.01]
	materials, e.g. Portland cements [4, 2006.01]	11/024	 Ingredients added before, or during, the calcining process, e.g. calcination modifiers [4, 2006.01]
7/14	• Cements containing slag [1, 2006.01]	11/028	
7/147	Metallurgical slag [4, 2006.01] Minture share for ith other incurred:		• • • for the wet process, e.g. dehydrating in solution
7/153	Mixtures thereof with other inorganic cementitious materials or other		or under saturated vapor
	activators [4, 2006.01]		conditions [4, 2006.01]
7/17	• • • with calcium oxide containing	11/036	31 , 8 3 8
	activators [4, 2006.01]	11/05	fluidised bed or in a rotary kiln [4, 2006.01] • obtaining anhydrite (C04B 11/028 takes
7/19	• • • • Portland cements [4, 2006.01]	11/05	precedence) [4, 2006.01]
7/21	• • • with calcium sulfate containing activators [4, 2006.01]	11/06	• starting from anhydrite [1, 2006.01]
7/22	• Iron ore cements [1, 2006.01]	11/26	 starting from phosphogypsum or from waste, e.g.
7/24	Cements from oil shales, residues or waste other than		purification products of smoke (C04B 11/02 takes
	slag [1, 4, 2006.01]	11/28	precedence) [4, 2006.01]Mixtures thereof with other inorganic cementitious
7/26	from raw materials containing flue	11/20	materials (C04B 7/04, C04B 7/153 take
T /D0	dust [1, 2006.01]		precedence) [4, 2006.01]
7/28	 from combustion residues (C04B 7/26 takes precedence) [1, 4, 2006.01] 	11/30	with hydraulic cements, e.g. Portland
7/30	• • from oil shale; from oil shale		cements [4, 2006.01]
.,	residues [1, 4, 2006.01]	12/00	Cements not provided for in groups C04B 7/00-
7/32	• Aluminous cements [1, 2006.01]		C04B 11/00 [4, 2006.01]
7/34	Hydraulic lime cements; Roman	12/02	• Phosphate cements [4, 2006.01]
7/245	cements [1, 2006.01]	12/04	Alkali metal or ammonium silicate
7/345	 Hydraulic cements not provided for in one of the groups C04B 7/02-C04B 7/34 [4, 2006.01] 		cements [4, 2006.01]
7/36	Manufacture of hydraulic cements in		
	general [1, 2006.01]		aterials as fillers for mortars, concrete or artificial
7/38	 Preparing or treating the raw materials 	Use of masternation with the stone [4]	aterials as tillers tor mortars, concrete or artificial
	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] 		
7/38 7/40	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating 	stone [4]	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of
	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] 	stone [4]	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance
7/40 7/42	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] 	stone [4]	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or
7/40	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, 	stone [4]	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance
7/40 7/42 7/43	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] 	stone [4]	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01]
7/40 7/42 7/43 7/44	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] 	14/02 14/04	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01]
7/40 7/42 7/43	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] 	14/02 14/04 14/06	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01]
7/40 7/42 7/43 7/44 7/45	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] 	14/02 14/06 14/08	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes 	14/02 14/06 14/08 14/10	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01] • Diatomaceous earth [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] 	14/02 14/04 14/06 14/08 14/10 14/12	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Quartz; Sand [4, 2006.01] Diatomaceous earth [4, 2006.01] Clay [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] 	14/02 14/06 14/08 14/10	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01] • Diatomaceous earth [4, 2006.01] • Clay [4, 2006.01] • Expanded clay [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] 	14/02 14/04 14/06 14/08 14/10 14/12 14/14	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Quartz; Sand [4, 2006.01] Diatomaceous earth [4, 2006.01] Clay [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Quartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Expanded clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of porous, e.g. pumice [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01] • Diatomaceous earth [4, 2006.01] • Clay [4, 2006.01] • Expanded clay [4, 2006.01] • Minerals of vulcanic origin [4, 2006.01] • Perlite [4, 2006.01] • Mica; Vermiculite [4, 2006.01] • Glass [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01]	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] • Granular materials [4, 2006.01] • Silica-rich materials; Silicates [4, 2006.01] • Quartz; Sand [4, 2006.01] • Diatomaceous earth [4, 2006.01] • Clay [4, 2006.01] • Expanded clay [4, 2006.01] • Minerals of vulcanic origin [4, 2006.01] • Perlite [4, 2006.01] • Olica; Vermiculite [4, 2006.01] • Glass [4, 2006.01] • Olicas [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Oliatorich materials; Silicates [4, 2006.01] Oliatomaceous earth [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Quartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Perlite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Glass [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Ouartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Perlite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Glass [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Oxides other than silica [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Hydrating [4, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Ouartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Perlite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Glass [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Carbides; Nitrides; Borides [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Ouartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Perlite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Glass [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Oxides other than silica [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02 9/04 9/06	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead [1, 2006.01] 	14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32 14/34	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Silica-rich materials; Silicates [4, 2006.01] Quartz; Sand [4, 2006.01] Clay [4, 2006.01] Clay [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Minerals of vulcanic origin [4, 2006.01] Perlite [4, 2006.01] Perlite [4, 2006.01] Mica; Vermiculite [4, 2006.01] Glass [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Carbonates [4, 2006.01] Metals [4, 2006.01] Metals [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead [1, 2006.01] Mixtures thereof with other inorganic cementitious 	14/00 14/00 14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32 14/34 14/36	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Other index of the content of the
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02 9/04 9/06	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead [1, 2006.01] 	14/00 14/00 14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32 14/36 14/38 14/38	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Oliatorich materials; Silicates [4, 2006.01] Oliatomaceous earth [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02 9/04 9/06	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead [1, 2006.01] Mixtures thereof with other inorganic cementitious materials [4, 2006.01] 	14/00 14/00 14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32 14/36 14/36 14/38 14/40 14/42	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Oliatomaceous earth [4, 2006.01] Inorganic materials not provided for in groups C04B 14/04-C04B 14/34 [4, 2006.01] Inorganic materials not provided for in groups C04B 14/04-C04B 14/34 [4, 2006.01] Asbestos [4, 2006.01] Asbestos [4, 2006.01]
7/40 7/42 7/43 7/44 7/45 7/46 7/47 7/48 7/51 7/52 7/60 9/00 9/02 9/04 9/06	 Preparing or treating the raw materials individually or as batches [1, 4, 2006.01] Dehydrating; Forming, e.g. granulating (granulating apparatus B01J 2/00) [1, 2006.01] Active ingredients added before, or during, the burning process [1, 2006.01] Heat treatment, e.g. precalcining, burning, melting; Cooling [4, 2006.01] Burning; Melting [1, 4, 2006.01] in fluidised beds [4, 2006.01] electric [1, 4, 2006.01] Cooling [4, 2006.01] Clinker treatment (C04B 7/47 takes precedence) [1, 4, 2006.01] Hydrating [4, 2006.01] Grinding [1, 2006.01] Methods for eliminating alkali metals or compounds thereof [4, 2006.01] Magnesium cements or silimar cements [1, 2006.01] Magnesium cements containing chlorides, e.g. Sorel cement [1, 2006.01] Magnesium cements containing sulfates, nitrates, phosphates, or fluorides [1, 2006.01] Cements containing metal compounds other than magnesium compounds, e.g. compounds of zinc or lead [1, 2006.01] Mixtures thereof with other inorganic cementitious materials [4, 2006.01] with hydraulic cements, e.g. Portland 	14/00 14/00 14/02 14/04 14/06 14/08 14/10 14/12 14/14 14/16 14/18 14/20 14/22 14/24 14/26 14/28 14/30 14/32 14/36 14/38 14/38	Use of inorganic materials as fillers, e.g. pigments, for mortars, concrete or artificial stone; Treatment of inorganic materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone (reinforcing elements for building E04C 5/00) [4, 2006.01] Granular materials [4, 2006.01] Oliatorich materials; Silicates [4, 2006.01] Oliatomaceous earth [4, 2006.01]

14/46 • • Rock wool **[4, 2006.01]**

14/48	• • Metal [4, 2006.01]	20/02	• Treatment [4, 2006.01]
16/00	Use of organic materials as fillers, e.g. pigments, for	20/04	 Heat treatment [4, 2006.01]
10/00	mortars, concrete or artificial stone; Treatment of organic materials specially adapted to enhance their	20/06	 • Expanding clay, perlite, vermiculite or like granular materials [4, 2006.01]
	filling properties in mortars, concrete or artificial	20/08	 Defibrillating asbestos [4, 2006.01]
	stone (reinforcing elements for building	20/10	 Coating or impregnating [4, 2006.01]
	E04C 5/00) [4, 2006.01]	20/12	 Multiple coating or impregnating [4, 2006.01]
16/02	Cellulosic materials [4, 2006.01]		
16/04	Macromolecular compounds (C04B 16/02 takes		
	precedence) [4, 2006.01]	Use of m	aterials as active ingredients [4]
16/06	• • fibrous [4, 2006.01]		Note(s) [4, 6]
16/08	 porous, e.g. expanded polystyrene 		1. Active ingredients which react with cement
16/10	 beads [4, 2006.01] Treatment for enhancing the mixability with the mortar [4, 2006.01] 		compounds for forming new or modified mineralogical phases and are added before the hardening process, as well as cements added as
16/12	characterised by the shape (fibrous macromolecular		additives to other cements, are classified in groups
10,12	compounds C04B 16/06; porous macromolecular		C04B 7/00-C04B 12/00.
	compounds C04B 16/08) [4, 2006.01]		2. In groups C04B 22/00-C04B 24/00, it is desirable
			to add the indexing codes of group C04B 103/00.
18/00	Use of agglomerated or waste materials or refuse as		
	fillers for mortars, concrete or artificial stone;	22/00	Use of inorganic materials as active ingredients for
	Treatment of agglomerated or waste materials or		mortars, concrete or artificial stone, e.g.
	refuse, specially adapted to enhance their filling properties in mortars, concrete or artificial stone	22/02	accelerators [4, 2006.01]
	(reinforcing elements for building	22/02	• Elements [4, 2006.01]
	E04C 5/00) [4, 2006.01]	22/04	 Metals, e.g. aluminium used as blowing agent [4, 2006.01]
18/02	Agglomerated materials [4, 2006.01]	22/06	• Oxides; Hydroxides [4, 2006.01]
18/04	 Waste materials; Refuse [4, 2006.01] 	22/08	• Acids or salts thereof [4, 2006.01]
18/06	• • Combustion residues, e.g. purification products of	22/10	 containing carbon in the anion, e.g.
	smoke, fumes or exhaust gases [4, 2006.01]		carbonates [4, 2006.01]
18/08	• • • Flue dust [4, 2006.01]	22/12	 containing halogen in the anion, e.g. calcium
18/10	• • • Burned refuse [4, 2006.01]		chloride [4, 2006.01]
18/12	• • from quarries, mining or the like [4, 2006.01]	22/14	 containing sulfur in the anion, e.g.
18/14	• • from metallurgical processes (treatment of molten		sulfides [4, 2006.01]
18/16	slag C04B 5/00) [4, 2006.01] • from building or ceramic	22/16	• containing phosphorus in the anion, e.g.
10/10	industry [4, 2006.01, 2023.01]		phosphates [4, 2006.01]
18/162	Cement kiln dust; Lime kiln dust [2023.01]	24/00	Use of organic materials as active ingredients for
18/165	• • • Ceramic waste [2023.01]		mortars, concrete or artificial stone, e.g.
	Recycled materials, i.e. waste materials reused		plasticisers [4, 2006.01]
	in the production of the same	24/02	 Alcohols; Phenols; Ethers [4, 2006.01]
	materials [2023.01]	24/04	Carboxylic acids; Salts, anhydrides or esters
18/18	 organic (C04B 18/10 takes 	24/06	thereof [4, 2006.01]
	precedence) [4, 2006.01]	24/06	• • containing hydroxy groups [4, 2006.01]
18/20	• • • from macromolecular compounds [4, 2006.01]	24/08	• Fats; Fatty oils; Ester type waxes; Higher fatty acids,
18/22	• • • Rubber [4, 2006.01]		i.e. having at least seven carbon atoms in an unbroken chain bound to a carboxyl group; Oxidised
18/24	• • Vegetable refuse, e.g. rice husks, maize-ear		oils or fats [4, 2006.01]
	refuse; Cellulosic materials, e.g.	24/10	• Carbohydrates or derivatives thereof [4, 2006.01]
10/20	paper [4, 2006.01]	24/12	Nitrogen containing compounds [4, 2006.01]
18/26	• • • Wood, e.g. sawdust, wood shavings [4, 2006.01]	24/14	 Peptides; Proteins; Derivatives
18/28	• • • • Mineralising; Compositions	-1/17	thereof [4, 2006.01]
10/20	therefor [4, 2006.01]	24/16	• Sulfur-containing compounds [4, 2006.01]
18/30	Mixed waste; Waste of undefined composition,	24/18	 Lignin sulfonic acid or derivatives thereof, e.g.
	e.g. municipal waste (C04B 18/10 takes		sulfite lye [4, 2006.01]
	precedence) [4, 2006.01]	24/20	• • Sulfonated aromatic compounds [4, 2006.01]
20.125	TY 6	24/22	• • • Condensation products thereof [4, 2006.01]
20/00	Use of materials as fillers for mortars, concrete or	24/24	 Macromolecular compounds (C04B 24/14 takes
	artificial stone according to more than one of groups		precedence; macromolecular compounds comprising
	C04B 14/00-C04B 18/00 and characterised by shape or grain distribution; Treatment of materials		sulfonate or sulfate groups
	according to more than one of the groups	0.470.0	C04B 24/16) [4, 6, 2006.01]
	C04B 14/00-C04B 18/00 specially adapted to enhance	24/26	 obtained by reactions only involving carbon-to- carbon unsaturated bonds [4, 2006.01]
	their filling properties in mortars, concrete or	24/28	 obtained otherwise than by reactions only
	artificial stone; Expanding or defibrillating materials	Z4/Z0	involving carbon-to-carbon unsaturated
	(reinforcing elements for building		bonds [4, 2006.01]
	E04C 5/00) [4, 2006.01]		* 2

24/30	Condensation polymers of aldehydes or	28/00	Compositions of mortars, concrete or artificial stone,
24/32	ketones [4, 2006.01] • • Polyethers, e.g. alkylphenol		containing inorganic binders or the reaction product of an inorganic and an organic binder, e.g. polycarboxylate cements [4, 2006.01]
24/24	polyglycolether [4, 2006.01]	28/02	containing hydraulic cements other than calcium
24/34	• Natural resins, e.g. rosin [4, 2006.01]	20/02	sulfates [4, 2006.01]
24/36	• Bituminous materials, e.g. tar, pitch [4, 2006.01]	28/04	 Portland cements [4, 2006.01]
24/38	• Polysaccharides or derivatives thereof [4, 2006.01]	28/06	 Aluminous cements [4, 2006.01]
24/40	Compounds containing silicon, titanium or	28/08	 Slag cements [4, 2006.01]
0.4 / 40	zirconium [4, 2006.01]	28/10	_
24/42	 Compounds having one or more carbon-to-silicon linkages [4, 2006.01] 		Lime cements or magnesium oxide cements [4, 2006.01] The limit of a page call.
		28/12	• • • Hydraulic lime [4, 2006.01]
Composit	ions of mortars, concrete or artificial stone [4]	28/14	• containing calcium sulfate cements [4, 2006.01]
Composit	nons of mortars, concrete of artificial stone [4]	28/16	• • containing anhydrite [4, 2006.01]
	Note(s) [4, 6, 2006.01] 1. Any ingredient of compositions of mortars,	28/18	 containing mixtures of the silica-lime type [4, 2006.01]
	concrete or artificial stone, classified in groups	28/20	• • Sand-lime [4, 2006.01]
	C04B 26/00-C04B 32/00 according to the last	28/22	• • Lime and pozzuolanas [4, 2006.01]
	place rule, and which itself is determined to be	28/24	 containing alkyl ammonium or alkali metal silicates;
	novel and non-obvious, must also be classified in		containing silica sols [4, 2006.01]
	the last appropriate place in groups C04B 7/00-	28/26	• • Silicates of the alkali metals [4, 2006.01]
	C04B 24/00. 2. Any ingredient of compositions of mortars,	28/28	 containing organic polyacids, e.g. polycarboxylate cements [4, 2006.01]
	concrete or artificial stone, which is not identified by the classification in groups C04B 26/00-	28/30	• containing magnesium cements (magnesium oxide cements C04B 28/10) [4, 2006.01]
	C04B 32/00 according to the last place rule, and which is considered to represent information of	28/32	 Magnesium oxychloride cements, e.g. Sorel cement [4, 2006.01]
	particular interest for search, may also be	28/34	• containing cold phosphate binders [4, 2006.01]
	classified in the last appropriate place in groups	28/36	• containing sulfur, sulfides or selenium [4, 2006.01]
	C04B 7/00-C04B 24/00. This can for example be		
	the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory	30/00	Compositions for artificial stone, not containing binders (artificial stone from molten slag C04B 5/00) [4, 2006.01]
	classification should be given as "additional information". For example, a well defined	30/02	• containing fibrous materials [4, 2006.01]
	Portland cement mortar mixture containing clay	32/00	Artificial stone not provided for in other groups of
	as an essential or characterising filler is classified	32/00	this subclass (artificial stone from molten slag
	in group C04B 28/04 and may also additionally be		C04B 5/00) [4, 2006.01]
	classified in group C04B 14/10. 3. In groups C04B 26/00-C04B 32/00, it is desirable	32/02	• with reinforcements [4, 2006.01]
	3. In groups C04B 26/00-C04B 32/00, it is desirable to add the indexing codes of group C04B 111/00.		•
26/00	Compositions of mortars, concrete or artificial stone,	Ceramics	
20/02	containing only organic binders [4, 2006.01]	33/00	Clay-wares (monolithic refractories or refractory
26/02	Macromolecular compounds [4, 2006.01]		mortars C04B 35/66; porous products
26/04	obtained by reactions only involving carbon-to- orthon uncertified bonds [4, 2006 01].		C04B 38/00) [1, 2, 2006.01]
20,100	carbon unsaturated bonds [4, 2006.01]	33/02	• Preparing or treating the raw materials individually or
26/06	• • • Acrylates [4, 2006.01]		as batches [1, 2006.01]
26/08	• • containing halogen [4, 2006.01]	33/04	 Clay; Kaolin [1, 2006.01]
26/10	 obtained otherwise than by reactions only involving carbon-to-carbon unsaturated 	33/06	• • • Rendering lime harmless [1, 2006.01]
	bonds [4, 2006.01]	33/08	• • • Preventing efflorescence [1, 2006.01]
26/12	Condensation polymers of aldehydes or	33/10	• • Eliminating iron or lime [1, 2006.01]
	ketones [4, 2006.01]	33/13	 Compounding ingredients (C04B 33/36, C04B 35/71 take precedence) [2, 2006.01]
26/14	• • • Polyepoxides [4, 2006.01]	33/132	• • Waste materials; Refuse (C04B 33/16 takes
26/16	• • Polyurethanes [4, 2006.01]		precedence) [2006.01]
26/18	• • Polyesters; Polycarbonates [4, 2006.01]	33/135	• • • Combustion residues, e.g fly ash,
26/20	• • Polyamides [4, 2006.01]		incineration waste [2006.01]
26/22	• Natural resins, e.g. rosin [4, 2006.01]	33/138	• • • from metallurgical processes, e.g. slag,
26/24	• • Cellulosic waste liquor, e.g. sulfite		furnace dust, galvanic waste [2006.01]
26/26	lye [4, 2006.01]	33/14	• • • Colouring matters [1, 2006.01]
26/26	• Bituminous materials, e.g. tar, pitch [4, 2006.01]	33/16	• • Lean materials, e.g. grog, quartz [1, 2006.01]
26/28	• Polysaccharides or derivatives thereof [4, 2006.01]	33/18	• • • for liquefying the batches [1, 2006.01]
26/30	 Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4, 2006.01] 	33/20	 for dry-pressing (C04B 33/13 takes precedence) [1, 2006.01]

precedence) [1, 2006.01]

• Manufacture of porcelain or white ware [1, 2006.01]

• Grog products [1, 2006.01]

33/22

33/24

26/32

• • containing silicon **[4, 2006.01]**

					_
33/26	• • of porcelain for electrical insulation [1, 2006.01]	35/115	•	•	• Translucent or transparent
33/28	• Slip casting [1, 2006.01]	DE /117			products [6, 2006.01]
33/30	• Drying methods [1, 2006.01]				• • Composites [6, 2006.01]
33/32	• Burning methods [1, 2006.01]	35/119			• • • with zirconium oxide [6, 2006.01] based on chromium oxide (C04B 35/047,
33/34	• combined with glazing [1, 2006.01]	35/12	•	٠	C04B 35/105 take precedence) [1, 6, 2006.01]
33/36	• Reinforced clay-wares [2, 2006.01]	35/14			based on silica [1, 6, 2006.01]
35/00	Shaped ceramic products characterised by their	35/14			based on silicates other than clay [1, 6, 2006.01]
55700	composition; Ceramic compositions (containing free	35/18			• rich in aluminium oxide [1, 6, 2006.01]
	metal bonded to carbides, diamond, oxides, borides,	35/185			• Mullite [6, 2006.01]
	nitrides, silicides, e.g. cermets, or other metal	35/103			Alkali metal aluminosilicates, e.g.
	compounds, e.g. oxynitrides or sulfides, other than as	55/15			spodumene [6, 2006.01]
	macroscopic reinforcing agents C22C); Processing	35/195	•		Alkaline earth aluminosilicates, e.g.
	powders of inorganic compounds preparatory to the manufacturing of ceramic products [1, 4, 2006.01]				cordierite [6, 2006.01]
	manufacturing of ceramic products [1, 4, 2000.01]	35/20	•	•	• rich in magnesium oxide [1, 6, 2006.01]
	Note(s) [3, 6]	35/22	•	•	• rich in calcium oxide [1, 6, 2006.01]
	1. In this group, in the absence of an indication to	35/26	•	•	based on ferrites [1, 2, 6, 2006.01]
	the contrary, compositions are classified	35/28	•	•	 with nickel oxide as the principal
	according to the constituent present in the highest				oxide [1, 2, 6, 2006.01]
	proportion by weight.	35/30			 with zinc oxide [1, 2, 6, 2006.01]
	In this group, magnesium is considered as an alkaline earth metal.	35/32	•	•	 with cobalt oxide as the principal
	3. In this group, a composite is considered as a				oxide [1, 2, 6, 2006.01]
	sintered mixture of different powdered materials,	35/34			• • with zinc oxide [1, 2, 6, 2006.01]
	other than sintering aids, the materials being	35/36	•	•	• with manganese oxide as the principal
	present as separate phases in the sintered product.	25 /20			oxide [1, 2, 6, 2006.01]
	4. In this group, fine ceramics are considered as	35/38			• • with zinc oxide [1, 2, 6, 2006.01]
	products having a polycrystalline fine-grained	35/40			• with rare earth oxide [1, 2, 6, 2006.01]
	microstructure, e.g. of dimensions below 100 micrometers.	35/42	•	•	based on chromites (C04B 35/047, C04B 35/105 take precedence) [1, 2, 6, 2006.01]
	5. The production of ceramic powder is classified in	35/44			based on aluminates [1, 2, 6, 2006.01]
	this group in so far as it relates to the preparation	35/443			 Magnesium aluminate spinel [6, 2006.01]
	of powder with specific characteristics.	35/447			based on phosphates [6, 2006.01]
35/01	 based on oxides [6, 2006.01] 	35/45			
35/03	 based on magnesium oxide, calcium oxide or 	337 13			with other oxides [6, 2006.01]
	oxide mixtures derived from dolomite [6, 2006.01]	35/453	•	•	based on zinc, tin or bismuth oxides or solid
35/035	Refractories from grain sized mixtures				solutions thereof with other oxides, e.g. zincates,
	containing non-oxide refractory materials, e.g. carbon [6, 2006.01]				stannates or bismuthates [6, 2006.01]
35/04	• • • based on magnesium oxide [1, 6, 2006.01]	35/457			• based on tin oxides or stannates [6, 2006.01]
	Refractories from grain sized	35/46	•	•	based on titanium oxides or titanates (containing
557 0 15	mixtures [6, 2006.01]				also zirconium or hafnium oxides, zirconates or hafnates C04B 35/49) [1, 6, 2006.01]
35/047	• • • containing chromium oxide or chrome	35/462			• based on titanates [6, 2006.01]
	ore [6, 2006.01]				based on alkaline earth metal
35/05	• • • Refractories by fusion casting [6, 2006.01]	337 403			titanates [6, 2006.01]
35/053	• • • • Fine ceramics [6, 2006.01]	35/468	•	•	• • based on barium titanates [6, 2006.01]
35/057	• • • based on calcium oxide [6, 2006.01]	35/47			• • based on strontium titanates [6, 2006.01]
35/06	 based on oxide mixtures derived from 	35/472			• • based on lead titanates [6, 2006.01]
	dolomite [1, 2006.01]	35/475			• • based on bismuth titanates [6, 2006.01]
35/08	• • based on beryllium oxide [1, 6, 2006.01]	35/478			• • based on aluminium titanates [6, 2006.01]
35/10	• • based on aluminium oxide [1, 6, 2006.01]	35/48			based on zirconium or hafnium oxides or
35/101	• • • Refractories from grain sized				zirconates or hafnates [1, 6, 2006.01]
25 /102	mixtures [6, 2006.01]	35/482	•	•	 Refractories from grain sized
35/103	• • • containing non-oxide refractory materials, e.g. carbon (C04B 35/106 takes				mixtures [6, 2006.01]
	precedence) [6, 2006.01]	35/484			• Refractories by fusion casting [6, 2006.01]
35/105		35/486			• Fine ceramics [6, 2006.01]
	ore [6, 2006.01]	35/488			• • Composites [6, 2006.01]
35/106	• • • containing zirconium oxide or zircon	35/49	•	•	• containing also titanium oxide or
	$(ZrSiO_4)$ [6, 2006.01]	DE / 404	_	_	titanates [3, 6, 2006.01]
	• • • Refractories by fusion casting [6, 2006.01]	35/491	•	•	 based on lead zirconates and lead titanates [6, 2006.01]
35/109	• • • containing zirconium oxide or zircon	35/403			• • containing also other lead
	(ZrSiO ₄) [6, 2006.01]	JJ/4JJ	-		compounds [6, 2006.01]
	• • • Fine ceramics [6, 2006.01]				r (-)
35/113	• • • based on beta-aluminium oxide [6, 2006.01]				

35/495		based on vanadium, niobium, tantalum,	35/622	Forming processes; Processing powders of inorganic
33/433		molybdenum or tungsten oxides or solid solutions	33/022	compounds preparatory to the manufacturing of
		thereof with other oxides, e.g. vanadates, niobates,		ceramic products [6, 2006.01]
		tantalates, molybdates or tungstates [6, 2006.01]	35/624	
35/497	•	 based on solid solutions with lead 	35/626	
		oxide [6, 2006.01]	337 020	as batches [6, 2006.01]
35/499	•	• • containing also titanates [6, 2006.01]	35/628	• • • Coating the powders [6, 2006.01]
35/50		based on rare earth compounds [1, 2006.01]	35/63	 using additives specially adapted for forming
35/505		• based on yttrium oxide [6, 2006.01]	33/03	the products [6, 2006.01]
			25/622	
35/51		based on compounds of actinides [2, 2006.01]	35/632	• • • • Organic additives [6, 2006.01]
35/515	٠	based on non-oxides (C04B 35/50, C04B 35/51 take	35/634	• • • • Polymers (C04B 35/636 takes precedence) [6, 2006.01]
25/52		precedence) [6, 2006.01]	25/626	The state of the s
35/52		• based on carbon, e.g. graphite [1, 6, 2006.01]	35/636	• • • • Polysaccharides or derivatives
35/524	•	• obtained from polymer precursors, e.g. glass-	25/620	thereof [6, 2006.01]
0= /=00		like carbon material [6, 2006.01]	35/638	• • • Removal thereof [6, 2006.01]
35/528	•	obtained from carbonaceous particles with or	35/64	Burning or sintering processes (C04B 33/32 takes)
		without other non-organic		precedence) [1, 6, 2006.01]
		components [6, 2006.01]	35/645	• • • Pressure sintering [6, 2006.01]
35/532	•	containing a carbonisable	35/65	 Reaction sintering of free metal- or free silicon
		binder [6, 2006.01]		containing compositions [3, 2006.01]
35/536		 based on expanded graphite [6, 2006.01] 	35/653	 Processes involving a melting step [6, 2006.01]
35/547	•	 based on sulfides or selenides [6, 2006.01] 	35/657	• • • for manufacturing refractories (C04B 35/05,
35/553	•	 based on fluorides [6, 2006.01] 		C04B 35/107, C04B 35/484 take
35/56	•	• based on carbides [1, 4, 2006.01]		precedence) [6, 2006.01]
35/563		• based on boron carbide [6, 2006.01]	35/66	 Monolithic refractories or refractory mortars,
35/565		• based on silicon carbide [6, 2006.01]		including those whether or not containing
				clay [1, 2006.01]
35/567	•	• • Refractories from grain sized		
25 /560		mixtures [6, 2006.01]		Note(s) [2006.01]
35/569	•	• • • Fine ceramics [6, 2006.01]		Any ingredient of a refractory mortar composition
35/571	•	• • • obtained from polymer		containing a hydraulic cement, e.g. aluminous cement,
		precursors [6, 2006.01]		classified in group C04B 35/66, which is considered to
35/573	•	• • • obtained by reaction		represent information of interest for search, may also be
		sintering [6, 2006.01]		classified in the last appropriate place in groups
35/575	•	• • • obtained by pressure		C04B 7/00-C04B 24/00. This can, for example, be the
		sintering [6, 2006.01]		case when it is considered of interest to enable
35/576	•	 • • obtained by sintering without 		searching of compositions using a combination of
		pressure [6, 2006.01]		classification symbols. Such non-obligatory
35/577	•	• • • Composites [6, 2006.01]		classification should be given as "additional
35/58	•	 based on borides, nitrides or 		information". For example, such an additional
		silicides [1, 4, 6, 2006.01]		classification in group C04B 24/00 may be given for an
35/581	•	• • based on aluminium nitride [6, 2006.01]		organic retarder added to the mortar composition.
		• • Composites [6, 2006.01]	35/71	 Ceramic products containing macroscopic reinforcing
		• • based on boron nitride [6, 2006.01]		agents (C04B 35/66 takes precedence) [3, 4, 2006.01
		• • based on cubic boron nitride [6, 2006.01]	35/74	 containing shaped metallic materials [2, 2006.01]
			35/76	 • Fibres, filaments, whiskers, platelets, or the
35/5833	•	• • based on hexagonal boron		like [2, 2006.01]
DE (E0DE		nitride [6, 2006.01]	35/78	• • containing non-metallic materials [2, 2006.01]
		• • Composites [6, 2006.01]	35/80	Fibres, filaments, whiskers, platelets, or the
		• • based on silicon nitride [6, 2006.01]	337 33	like [2, 2006.01]
35/586	•	 Refractories from grain sized 	35/81	• • • • Whiskers [6, 2006.01]
		mixtures [6, 2006.01]		• • • • Asbestos; Glass; Fused silica [2, 2006.01]
35/587	•	• • • Fine ceramics [6, 2006.01]	35/82	
35/589	•	• • • obtained from polymer	35/83	• • • Carbon fibres in a carbon
		precursors [6, 2006.01]		matrix [6, 2006.01]
35/591	•	• • • obtained by reaction		<u>Note(s) [6]</u>
		sintering [6, 2006.01]		
35/593		• • • obtained by pressure sintering		The products covered by this group are usually referred
55, 555		(C04B 35/594 takes	DE / 0 :	to as "carbon-carbon composites".
		precedence) [6, 2006.01]	35/84	• • • Impregnated or coated materials [2, 2006.01]
		• • • obtained by sintering a reaction-sintered	27/00	Inining humand correspin auticles - 44 -44 -44 -44
35/594			37/00	Joining burned ceramic articles with other burned
35/594	•			
35/594	•	product, with or without		ceramic articles or other articles by
	•	product, with or without pressure [6, 2006.01]	05/00	ceramic articles or other articles by heating [1, 2006.01]
35/596	•	product, with or without pressure [6, 2006.01] • • • • Composites [6, 2006.01]	37/02	ceramic articles or other articles by heating [1, 2006.01]with metallic articles [1, 2006.01]
		product, with or without pressure [6, 2006.01]	37/02 37/04	ceramic articles or other articles by heating [1, 2006.01]

38/00 Porous mortars, concrete, artificial stone or ceramic ware; Preparation thereof (treating slag with gases or gas generating material C04B 5/06) **[4, 6, 2006.01]**

Note(s) [4]

Porous mortars, concrete, artificial stone or ceramic ware characterised by the ingredients or compositions are also classified in groups C04B 2/00-C04B 35/00.

- by adding chemical blowing agents [4, 2006.01]
- by dissolving-out added substances [4, 2006.01]
- 38/06 by burning-out added substances [4, 2006.01]
- 38/08 by adding porous substances **[4, 2006.01]**
- 38/10 by using foaming agents (C04B 38/02 takes precedence) [4, 2006.01]

40/00 Processes, in general, for influencing or modifying the properties of mortars, concrete or artificial stone compositions, e.g. their setting or hardening ability (by selecting active ingredients C04B 22/00-C04B 24/00; hardening of a well-defined composition C04B 26/00-C04B 28/00; making porous, cellular or lightening C04B 38/00) [4, 6, 2006.01]

- 40/02 Selection of the hardening environment [4, 2006.01]
- 40/04 Preventing evaporation of the mixing water (permanent coverings C04B 41/00) [4, 2006.01]
- 40/06 Inhibiting the setting, e.g. mortars of the deferred action type containing water in breakable containers [4, 2006.01]

41/00 After-treatment of mortars, concrete, artificial stone or ceramics; Treatment of natural stone (glazes, other than cold glazes, C03C 8/00) [1, 3, 2006.01]

Note(s) [4, 6]

- In this group, the following terms or expressions are used with the meanings indicated:
 - "mortars", "concrete" and "artificial stone" cover materials after primary shaping.
- Treating, e.g. coating or impregnating, a material with the same material or with a substance which ultimately is transformed into the same material is not considered after-treatment for this group but is classified as preparation of the material, e.g. a carbon body impregnated with a carbonisable substance is classified in C04B 35/52.
- 3. In groups C04B 41/45-C04B 41/80, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
- 41/45 Coating or impregnating **[4, 2006.01]**
- 41/46 • with organic materials [4, 2006.01]
- 41/47 • Oils, fats or waxes **[4, 2006.01]**
- 41/48 • Macromolecular compounds [4, 2006.01]
- 41/49 • Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4, 2006.01]
- 41/50 with inorganic materials **[4, 2006.01]**
- 41/51 • Metallising **[4, 2006.01]**
- 41/52 • Multiple coating or impregnating [4, 2006.01]
- involving the removal of part of the materials of the treated article [4, 2006.01]
- 41/60 of only artificial stone **[4, 2006.01]**
- 41/61 • Coating or impregnating **[4, 2006.01]**
- 41/62 • with organic materials **[4, 2006.01]**
- 41/63 • • Macromolecular compounds **[4, 2006.01]**
- 41/64 • Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4, 2006.01]

- 41/65 • with inorganic materials **[4, 2006.01]**
- 41/66 • • Fluorides, e.g. ocratation [4, 2006.01]
- 41/67 • • Phosphates [4, 2006.01]
- 41/68 • • Silicic acid; Silicates **[4, 2006.01]**
- 41/69 • Metals [4, 2006.01]
- 41/70 • for obtaining at least two superposed coatings having different compositions [4, 2006.01]
- 41/71 • at least one coating being an organic material [4, 2006.01]
- 41/72 involving the removal of part of the materials of the treated articles, e.g. etching **[4, 2006.01]**
- 41/80 of only ceramics **[4, 2006.01]**
- 41/81 • Coating or impregnating **[4, 2006.01]**
- 41/82 • with organic materials [4, 2006.01]
- 41/83 • • Macromolecular compounds **[4, 2006.01]**
- 41/84 • Compounds having one or more carbon-to-metal or carbon-to-silicon linkages [4, 2006.01]
- 41/85 • with inorganic materials **[4, 2006.01]**
- 41/86 • • Glazes; Cold glazes [4, 2006.01]
- 41/87 • Ceramics [4, 2006.01]
- 41/88 • • Metals **[4, 2006.01]**
- 41/89 • for obtaining at least two superposed coatings having different compositions [4, 2006.01]
- 41/90 • at least one coating being a metal **[4, 2006.01]**
- • involving the removal of part of the materials of the treated articles, e.g. etching **[4, 2006.01]**

Indexing scheme associated with groups C04B 22/00 and C04B 24/00, relating to the function or property of the active ingredients. [6]

103/00 Function or property of the active ingredients [6, 2006.01]

- 103/10 Accelerators [6, 2006.01]
- 103/12 • Set accelerators **[6, 2006.01]**
- 103/14 Hardening accelerators **[6, 2006.01]**
- 103/20 Retarders [6, 2006.01]
- 103/22 • Set retarders **[6, 2006.01]**
- 103/24 • Hardening retarders **[6, 2006.01]**
- 103/30 Water reducers, plasticisers, airentrainers [6, 2006.01]
- 103/32 • Superplasticisers [6, 2006.01]
- Surface-active agents; Dispersants [6, 2006.01]
- 103/42 Pore formers **[6, 2006.01]**
- 103/44 Thickening, gelling or viscosity increasing agents [6, 2006.01]
- 103/46 Water-loss reducers, hygroscopic or hydrophilic agents **[6, 2006.01]**
- 103/48 Foam stabilisers **[6, 2006.01]**
- 103/50 Defoamers; Air detrainers **[6, 2006.01]**
- 103/52 Grinding aids [6, 2006.01]
- 103/54 Pigments; Dyes **[6, 2006.01]**
- 103/56 Opacifiers [6, 2006.01]
- 103/60 Agents for protection against chemical, physical or biological attack **[6, 2006.01]**
- 103/61 • Corrosion inhibitors **[6, 2006.01]**
- 103/63 • Flame-proofing agents **[6, 2006.01]**
- 103/65 Water proofers or repellants **[6, 2006.01]**
- 103/67 • Biocides **[6, 2006.01]**
- 103/69 • Fungicides **[6, 2006.01]**

	scheme associated with groups C04B 26/00-	111/30	• Nailable or sawable materials [6, 2006.01]
	00, relating to the function, property or use of the	111/32	 Expansion inhibited materials [6, 2006.01]
mortars,	concrete or artificial stone. [6]	111/34	 Non-shrinking materials [6, 2006.01]
111/00	Function, property or use of the mortars, concrete or	111/40	 Porous or lightweight materials [6, 2006.01]
111/00	artificial stone [6, 2006.01]	111/42	 Floating materials [6, 2006.01]
		111/50	 Flexible or elastic materials [6, 2006.01]
		111/52	 Sound insulating materials [6, 2006.01]
111/10	 Compositions characterised by the absence of a specified material [6, 2006.01] 	111/54	 Substitutes for natural stone, e.g. artificial marble [6, 2006.01]
111/12	 Absence of asbestos, e.g. cement-asbestos substitutes [6, 2006.01] 	111/56	• Compositions suited for fabrication of pipes, e.g. by centrifugal casting [6, 2006.01]
111/20	Resistance against chemical, physical or biological	111/60	 Flooring materials [6, 2006.01]
	attack [6, 2006.01]	111/62	• • Self-levelling compositions [6, 2006.01]
111/21	• • Efflorescence resistance [6, 2006.01]	111/70	• Grouts [6, 2006.01]
111/22	• • Carbonation resistance [6, 2006.01]	111/72	• Compositions used for repairing existing buildings or
111/23	• • Acid resistance [6, 2006.01]		building materials [6, 2006.01]
111/24	• • Sea water resistance [6, 2006.01]	111/74	 Underwater applications [6, 2006.01]
111/25	• • Graffiti resistance [6, 2006.01]	111/76	• Use at sub-zero temperatures [6, 2006.01]
111/26	• • Corrosion of reinforcement resistance [6, 2006.01]	111/80	• Optical properties, e.g. transparency [6, 2006.01]
111/27	Water resistance, i.e. waterproof or water-repellent	111/82	 Coloured materials [6, 2006.01]
	materials [6, 2006.01]	111/90	• Electrical properties [6, 2006.01]
111/28	• • Fire resistance [6, 2006.01]	111/92	• • Electrically insulating materials [6, 2006.01]
		111/94	• • Electrically conducting materials [6, 2006.01]