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Chemical Industry (p.1/4)

Aluminium Powders - wettable

Product Name	Particle Size d_{50} *1 [µm]	Particle Size d_{90} *1 [µm]	Bulk Density *2 [g/cm³]
7002	~ 150	~ 300	0.23 - 0.29
7004	~ 85	~ 175	0.16 - 0.21
7009	~ 40	~ 95	0.11 - 0.15
7110	~ 35	~ 85	0.10 - 0.14
7112	~ 30	~ 70	0.11 - 0.15
7114	~ 28	~ 60	0.10 - 0.14
7210	~ 40	~ 70	0.11 - 0.15
7213	~ 30	~ 50	0.14 - 0.18
77213	~ 20	~ 50	0.14 - 0.18
77004	~ 70	~ 145	0.16 - 0.21
77007	~ 60	~ 135	0.16 - 0.21
77009	~ 40	~ 95	0.15 - 0.19
77010	~ 25	~ 65	0.13 - 0.17
77012	~ 23	~ 60	0.13 - 0.17
77013	~ 22	~ 52	0.12 - 0.16
77014	~ 21	~ 48	0.11 - 0.15
87007	~ 65	~ 120	0.12 - 0.16
87010	~ 35	~ 65	0.11 - 0.15
87012	~ 28	~ 55	0.12 - 0.16
87013	~ 25	~ 45	0.13 - 0.17
87014	~ 23	~ 45	0.11 - 0.15

All powders are available in reaction-delayed versions and are available as DEG-Pastes.

Test Methods: ***1 AQSB-044** ***2 AQSB-001**

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Chemical Industry (p.2/4)

Aluminium Powders - not wettable

Product Name	Particle Size d_{50} *1 [µm]	Particle Size d_{90} *1 [µm]	Bulk Density *2 [g/cm³]
76004	~ 65	~ 135	0.10 - 0.20
76007	~ 50	~ 110	0.17 - 0.23
76010	~ 30	~ 70	0.14 - 0.18
76011	~ 25	~ 65	0.13 - 0.17
76013	~ 22	~ 50	0.13 - 0.17
76014	~ 21	~ 48	0.12 - 0.16
86013	~ 22	~ 45	0.13 - 0.18

All powders are available in reaction-delayed versions and are available as DEG-Pastes.

Waterborne Pastes - stabilised

Product Name	Particle Size d_{50} *1 [µm]	Particle Size d_{90} *1 [µm]
Aquapor 1000 series	~ 35	~ 110
Aquapor 3000 series	~ 25	~ 85
Aquapor 7000 series	~ 18	~ 50
Aquapor 9000 series	~ 15	~ 37
Aquapor 70004 series	~ 60	~ 125
Aquapor 70007 series	~ 45	~ 110
Aquapor 70010 series	~ 25	~ 65
Aquapor 70013 series	~ 20	~ 50

All pastes are available with different solid content and different reaction delay.

Test Methods: ***1 AQSB-044** ***2 AQSB-001**

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Chemical Industry (p.3/4)

Solventborne Pastes (Diethylene Glycol) - stabilised

Product Name	Particle Size d_{50} *1 [µm]	Particle Size d_{90} *1 [µm]
DEG/1500 series	~ 35	~ 110
DEG/3500 series	~ 25	~ 85
DEG/7500 series	~ 18	~ 50
DEG/9500 series	~ 15	~ 37
DEG/75004 series	~ 60	~ 125
DEG/75007 series	~ 45	~ 110
DEG/75009 series	~ 40	~ 95
DEG/75010 series	~ 25	~ 65
DEG/75013 series	~ 20	~ 50

All pastes are available with different solid content and different reaction delay.

Calcium Carbonate Compounds

Product Name	Aluminium Content x [%]	Particle Size d_{50} *1 [µm]	Blaine/Water Coverage *5 [g/cm³]
$CaCO_3$/7004/x	10/20	~ 85	min. 7000
$CaCO_3$/7114/x	10/20	~ 28	min. 22 500
$CaCO_3$/77004/x	10/20	~ 70	min. 7000
$CaCO_3$/77009/x	10/20	~ 40	min. 13 000
$CaCO_3$/77014/x	10/20	~ 21	min. 19 000
$CaCO_3$/76004/x	10/20	~ 65	min. 3500
$CaCO_3$/290/x	10/20	~ 10	min. 35 000
$CaCO_3$/290R/x	10/20	~ 10	min. 35 000
$CaCO_3$/U290XR/x	10/20	~ 10	min. 35 000
$CaCO_3$/260R/x	10/20	~ 25	min. 18 000
$CaCO_3$/260XR/x	10/20	~ 25	min. 18 000
$CaCO_3$/U320R/x	10/20	~ 55	min. 8 000

Other compounds are possible.

Test Methods: ***1 AQSB-044** ***5 AQSB-010/014**

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Chemical Industry (p.4/4)

Aluminium Flitters

Product Name	Aceton Extract *3 [%]	Active Metal Content *4 [%]	Bulk Density *2 [g/cm³]	Particle Size Range [µm]
0/150	max. 0.6	min. 92	~ 0.15 - 0.25	0 - 150
0/300	max. 0.6	min. 92	~ 0.20 - 0.35	0 - 300
150/300	max. 0.6	min. 92	~ 0.20 - 0.40	150 - 300
300/600	max. 0.5	min. 92	~ 0.15 - 0.40	300 - 600
600/1000	max. 0.5	min. 92	~ 0.25 - 0.45	600 - 1000

Foil Granules

Product Name	Active Metal Content *4 [%]	Bulk Density *2 [g/cm³]	Particle Size Range [µm]
0 / 160	~ 96	~ 1.0	0 - 106
106 / 160	~ 96	~ 1.0	106 - 160
160 / 315	~ 96	~ 1.0	160 - 315
315 / 630	~ 96	~ 1.0	315 - 630
630 / 1000	~ 96	~ 1.0	630 - 1000

Aluminium Powders for Slurries

Product Name	Water Coverage *5 [g/cm³]	Screen Analysis *6 >71 µm [%]	Screen Analysis *6 >45 µm [%]	Fat Content *7 [%]
SL/0770	min. 18 000	max. 1	max. 7	2 - 3
SL/0970	min. 20 000	max. 0.5	max. 2	2 - 3

Aluminium Powders for Slurries - dedusted

Product Name	Water Coverage *5 [g/cm³]	Screen Analysis *6 >71 µm [%]	Screen Analysis *6 >45 µm [%]	Fat Content *7 [%]
SL/4770 DD	min. 18 000	max. 1.0	max. 7	2 - 3
SL/4970 DD	min. 20 000	max. 0.5	max. 2	2 - 3

Test Methods: *2 AQSB-001 *3 AQSB-041 *4 AQSB-012 *5 AQSB-010/014 *6 AQSB-003 *7 AQSB-017

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