

Technical Aluminiumflakes (TAF)

For Building Materials and applications in Chemical Industries,
Technical Ceramics and Pyrotechnics

Performance Range

SCHLENK produces technical aluminum flakes at three locations: At headquarters in Barnsdorf (Germany), in Kamnik (Slovenia) and in Bojkovice (Czech Republic). However, our range of services goes far beyond individual products:

- **Quality control**

To ensure the consistently high quality of our products, all production batches of our products are subjected to extensive testing in our laboratories. This test data is of course made available to our customers as required.

- **Dosing system for Aluminium Pastes**

SCHLENK developed the first safe paste dosing system for the plant market. Our customers can thus benefit greatly from the wealth of experience we have gained in the production and handling of aluminum pigments over many decades. With our systems, we offer a combination of safety, metering accuracy and flexibility.

- **Safety training**

Aluminum pigments, powders and pastes are hazardous substances. We teach how to handle them correctly in our safety training courses.

- **Technical support***

With our experienced and competent technicians we offer comprehensive technical support for the optimal use of aluminum powders and pastes.

Leistungsspektrum

SCHLENK produziert an drei Standorten Technische Aluminiumflakes: Am Hauptsitz in Barnsdorf (Deutschland), in Kamnik (Slovenien) und in Bojkovice (Tschechien). Unser Leistungsspektrum geht jedoch weit über die individuellen Produkte hinaus:

- **Qualitätskontrolle**

Um die konstant hohe Qualität unserer Produkte zu sichern, werden sämtliche Produktionschargen unserer Produkte in unseren Laboratorien ausführlichen Tests unterzogen. Diese Prüfdaten werden unseren Kunden selbstverständlich bei Bedarf zur Verfügung gestellt.

- **Aluminiumpasten Dosiersystem**

SCHLENK entwickelte das erste sichere Pasten-Dosiersystem für den Anlagenmarkt. Unsere Kunden können so ganz stark von dem Erfahrungsschatz profitieren, den wir bei der Herstellung und dem Handling von Aluminiumpigmenten in vielen Jahrzehnten gewonnen haben. Wir bieten mit unseren Anlagen eine Kombination aus Sicherheit, Dosiergenauigkeit und Flexibilität.

- **Sicherheitstraining**

Aluminiumpigmente, -pulver und -pasten sind Gefahrenstoffe. Wie man damit richtig umgeht, vermitteln wir in unseren Sicherheitstrainings.

- **Technische Unterstützung***

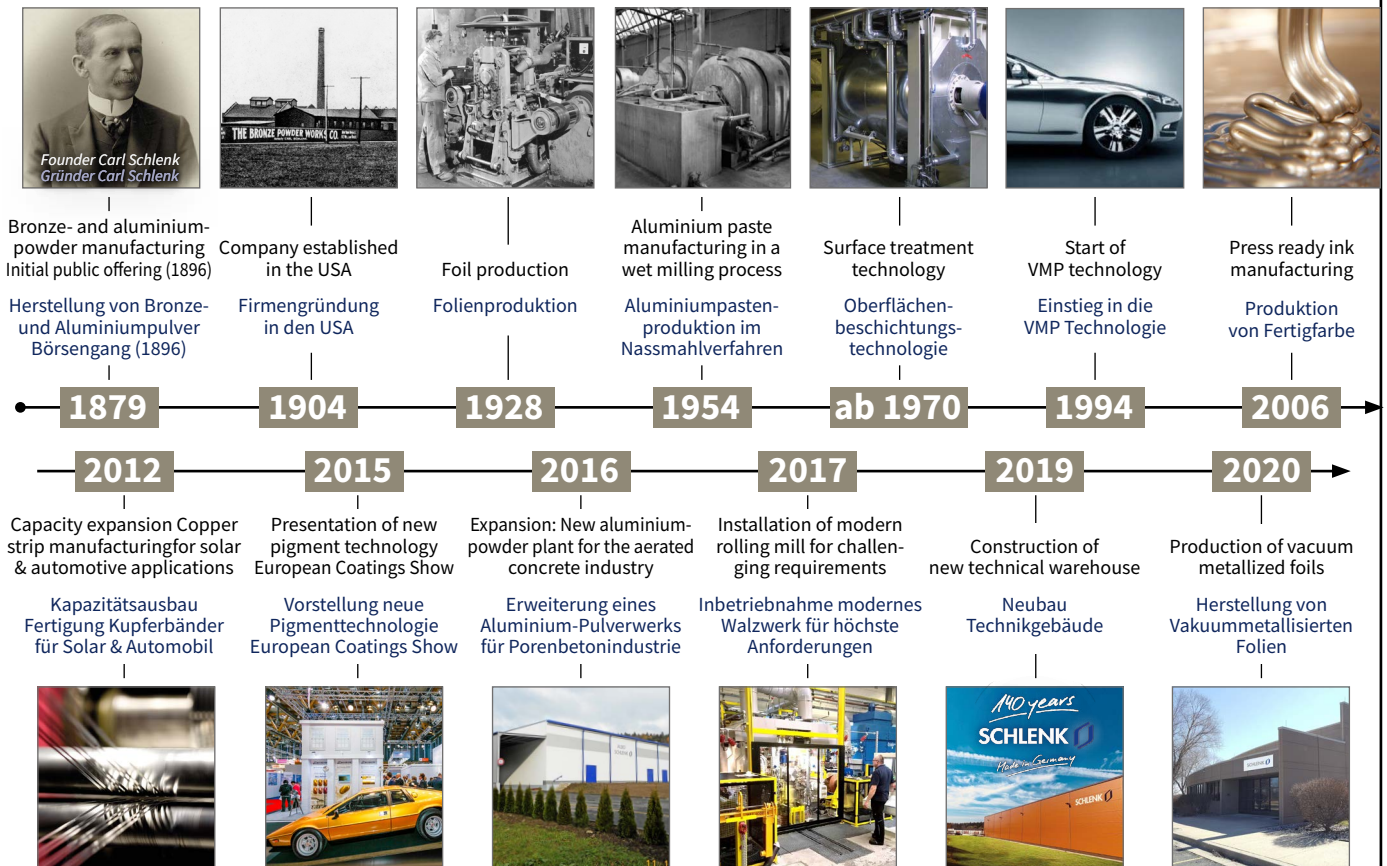
Mit unseren erfahrenen und kompetenten Technikern bieten wir eine umfassende fachliche Unterstützung zum optimalen Einsatz von Aluminiumpulvern und -pasten.

* Contact: p. 17

* Kontakt: S. 17



Milestones • Meilensteine



SCHLENK worldwide SCHLENK weltweit

Germany: Deutschland:

Headquarters:

Hauptsitz: Schlenk Metallic Pigments GmbH, Barnsdorf

Other locations in Germany:

Weitere Standorte in Deutschland:

- Schlenk Metallfolien GmbH & Co. KG, Georgensgmünd
- Schlenk Metallfolien GmbH & Co. KG, Bernlohe
- Schlenk Metallic Pigments GmbH, Rothenbruck
- Schlenk Metallic Pigments GmbH, Bitterfeld

Locations in the USA: Standorte in den USA:

- Schlenk Metallic Pigments in Lawrence, Kansas
- Schlenk Metallic Pigments in Ashland, MA

Locations in China: Standorte in China:

- Schlenk Metallic Pigments Co. LTD in Shanghai, China
- Schlenk ASIA LTD in Hong Kong, China

Other locations in Europe: Weitere Standorte in Europa:

- ALBO Schlenk in Bojkovice, Czech Republic
- KAMNIK Schlenk in Kamnik, Slovenia
- Schlenk PIGMENTI METALLICI SRL in Milan, Italy

📍 Location Standort ▲ Distribution Vertrieb

Onepager • overview • content

Autoclaved Aerated Concrete (AAC)

5 - 7



- Aluminium Powders - wettable
- Aluminium Powders - non wettable
- Calcium Carbonate Compounds
- Aluminium Flitters
- Atomized Aluminium

Plasters and Screeds

8 - 9



- Aluminium Powders - wettable
- Aluminium Powders - non wettable
- Calcium Carbonate Compounds
- Aluminium Flitters
- Atomized Aluminium

Chemical Industry

10 - 12



- Aluminium Powders - wettable
- Aluminium Powders - non wettable
- Waterborne Pastes
- Calcium Carbonate Compounds
- Aluminium Flitters
- Foil Granules

Technical Ceramics

13 - 14



- Aluminium Powders - wettable
- Aluminium Powders - non wettable
- Atomized Aluminium
- Waterborne Pastes
- Calcium Carbonate Compounds

Foundry Technology

14



- Foil Granules
- Atomized Aluminium
- Aluminium Powders for Slurries
- Aluminium Powders for Slurries - Dedusted

Pyrotechnics & Civil Explosives

16



- Aluminium Flitters
- Atomized Aluminium
- Aluminium Powders for Slurries
- Aluminium Powders for Slurries - Dedusted



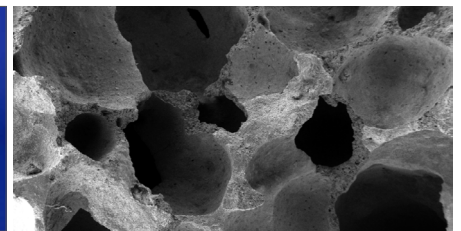
Autoclaved Aerated Concrete (AAC) (p.1/3)

Aluminium Powders - wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm^3]	Recommended Application Density [kg/m^3]
7002	~ 150	~ 300	0.18 - 0.25	≥ 600
7004	~ 85	~ 175	0.16 - 0.21	≥ 600
7008	~ 65	~ 130	0.15 - 0.19	500 - 600
7110	~ 40	~ 80	0.11 - 0.15	400 - 500
7112	~ 35	~ 70	0.11 - 0.15	400 - 500
7114	~ 30	~ 58	0.10 - 0.14	100 - 450
7810	~ 40	~ 80	0.11 - 0.15	400 - 500
7814	~ 33	~ 60	0.15 - 0.18	100 - 450
77004	~ 60	~ 140	0.16 - 0.22	≥ 500
77007	~ 50	~ 120	0.14 - 0.18	≥ 500
77009	~ 35	~ 95	0.15 - 0.18	450 - 600
77010	~ 25	~ 70	0.11 - 0.15	400 - 500
77012	~ 25	~ 60	0.11 - 0.15	400 - 500
77013	~ 22	~ 50	0.11 - 0.15	400 - 500
77014	~ 21	~ 48	0.11 - 0.15	100 - 450
87007	~ 50	~ 120	0.14 - 0.18	≥ 500
87012	~ 25	~ 60	0.13 - 0.15	400 - 500
87013	~ 25	~ 50	0.13 - 0.16	300 - 450

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

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



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Autoclaved Aerated Concrete (AAC) (p.2/3)

Aluminium Powders - not wettable

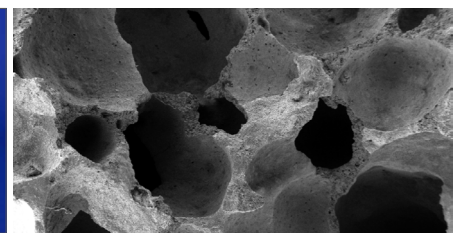
Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm^3]	Recommended Application Density [kg/m^3]
UP30	~ 65	~ 150	0.10 - 0.20	≥ 500
76004	~ 60	~ 140	0.16 - 0.23	≥ 600
76007	~ 55	~ 125	0.15 - 0.21	≥ 500
76010	~ 25	~ 70	0.11 - 0.15	400 - 500
76013	~ 22	~ 50	0.11 - 0.15	300 - 450
76014	~ 21	~ 48	0.11 - 0.16	100 - 450
86013	~ 22	~ 43	0.13 - 0.18	300 - 450

Waterborne Pastes

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Recommended Application Density [kg/m^3]
Aquapor 400 series	~ 60	~ 130	≥ 600
Aquapor 1000 series	~ 35	~ 100	500 - 600
Aquapor 3000 series	~ 25	~ 85	500 - 600
Aquapor 7000 series	~ 18	~ 50	400 - 500
Aquapor 9000 series	~ 13	~ 35	100 - 400
Aquapor 4204	~ 60	~ 130	≥ 600
Aquapor 4207	~ 55	~ 115	≥ 600
Aquapor 4209	~ 38	~ 95	≥ 500
Aquapor 4210	~ 30	~ 75	400 - 500
Aquapor 4213/W	~ 22	~ 50	350 - 450

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

All powders are available in reaction-delayed versions and are available as DEG-Pastes.
All pastes are available with different solid content and different reaction delay.



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Autoclaved Aerated Concrete (AAC) (p.3/3)



Solventborne Pastes (Diethylene Glycol) „stabilized“

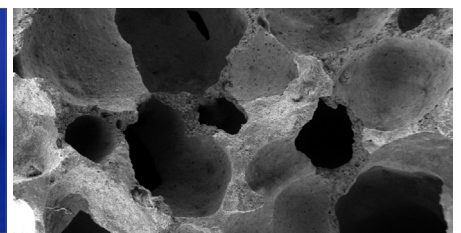
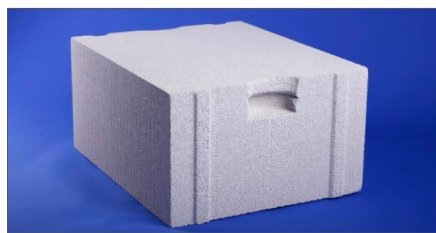
Product Name	Particle Size d_{50} ^{*1} [μm]	Particle Size d_{90} ^{*1} [μm]	Recommended Application Density [kg/m^3]
DEG/450 series	~ 60	~ 130	≥ 600
DEG/1500 series	~ 35	~ 100	500 - 600
DEG/3500 series	~ 25	~ 85	500 - 600
DEG/7500 series	~ 18	~ 50	400 - 500
DEG/9500 series	~ 13	~ 35	100 - 400
DEG/4504	~ 60	~ 130	≥ 600
DEG/4507	~ 55	~ 115	≥ 600
DEG/4509	~ 38	~ 95	≥ 500
DEG/4510	~ 30	~ 75	400 - 500
DEG/4513	~ 22	~ 50	350 - 450

Solventborne Pastes (Diethylene Glycol) from Wetable Powder „not stabilized“

Product Name	Particle Size d_{50} ^{*1} [μm]	Particle Size d_{90} ^{*1} [μm]	Recommended Application Density [kg/m^3]
DEG/7004/77	~ 60	~ 130	≥ 600
DEG/7009	~ 35	~ 100	500 - 600
DEG/7112	~ 25	~ 85	400 - 500
DEG/7114	~ 18	~ 50	100 - 450
DEG/7814	~ 18	~ 50	100 - 450
DEG/77013	~ 25	~ 85	400 - 500
DEG/77014	~ 18	~ 50	100 - 450
DEG/87116/65	~ 12	~ 32	100 - 200

Test Method: *1 AQS-B-044

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



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Plasters and Screeds (p.1/2)



The products for the application in plasters, renders and screeds are primarily used for reducing and avoiding shrinkage cracks (due to the expansion because of pore building). Additionally they are applied in formulations for restauration - and insulating renders to create a target pore structure.

Aluminium Powders - wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm ³]
7002	~ 150	~ 300	0.18 - 0.25
7004	~ 85	~ 175	0.16 - 0.21
7008	~ 65	~ 130	0.15 - 0.19
7110	~ 40	~ 80	0.11 - 0.15
7114	~ 30	~ 58	0.10 - 0.14
77004	~ 60	~ 140	0.16 - 0.22
77007	~ 50	~ 120	0.14 - 0.18
77009	~ 35	~ 93	0.15 - 0.18
77010	~ 25	~ 70	0.11 - 0.15
77012	~ 25	~ 60	0.11 - 0.15
77013	~ 22	~ 50	0.11 - 0.15
77014	~ 21	~ 48	0.11 - 0.15
87007	~ 50	~ 120	0.14 - 0.18
87012	~ 25	~ 60	0.13 - 0.16
87013	~ 25	~ 50	0.13 - 0.16

Aluminium Powders - not wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm ³]
UP30	~ 65	~ 150	0.10 - 0.20
76004	~ 60	~ 140	0.16 - 0.23
76007	~ 55	~ 125	0.15 - 0.21
76010	~ 25	~ 70	0.11 - 0.15
76013	~ 22	~ 50	0.11 - 0.15
76014	~ 21	~ 48	0.11 - 0.16

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

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



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Plasters and Screeds (p.2/2)



Calcium Carbonate Compounds

Product Name	Aluminium Powder x [%]	Particle Size d_{50} *1 [µm]	Blaine/ Water Coverage *5 [g/cm ³]
CaCO3/7004/x	10/20	~ 85	min. 7 000
CaCO3/7009/x	10/20	~ 75	min. 13 000
CaCO3/7114/x	10/20	~ 28	min. 22 000
CaCO3/UP30/x	10/20	~ 70	min. 3 500

Other compounds are possible.

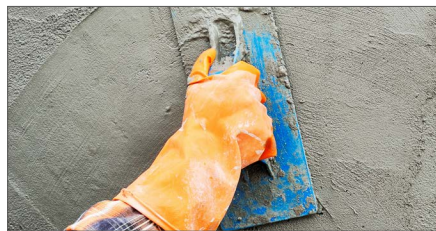
Aluminium Flitters

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

Atomized Aluminium

Product Name	Active Metal Content *4 [%]	Particle Size d_{50} *1 [µm]	Bulk Density *2 [g/cm ³]
Rogal Aluminium 4/34	min. 99.7	~ 21	~ 1.0
Rogal Aluminium 0/63	min. 99.7	~ 35	~ 1.0
Rogal Aluminium 32/75	min. 99.7	~ 40	~ 1.0
Rogal Aluminium 75/2000	min. 99.7	~ 100	~ 1.0

Test Methods: *1 AQSB-044 *2 AQSB-001 *3 AQSB-041 *4 AQSB-012



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Chemical Industry (p.1/3)



Aluminium Powders - wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm ³]
7002	~ 150	~ 300	0.18 - 0.25
7004	~ 85	~ 175	0.16 - 0.21
7114	~ 30	~ 58	0.10 - 0.14
77007	~ 50	~ 120	0.14 - 0.18
77009	~ 35	~ 93	0.15 - 0.18
77010	~ 25	~ 70	0.11 - 0.15
77012	~ 25	~ 60	0.11 - 0.15
77013	~ 22	~ 50	0.11 - 0.15

Aluminium Powders - not wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm ³]
UP30	~ 65	~ 150	0.10 - 0.20
76004	~ 60	~ 140	0.16 - 0.23
76007	~ 55	~ 125	0.15 - 0.21
76010	~ 25	~ 70	0.11 - 0.15
76013	~ 22	~ 50	0.11 - 0.15

Waterborne Pastes

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]
Aquapor 400 series	~ 60	~ 130
Aquapor 1000 series	~ 35	~ 100
Aquapor 3000 series	~ 25	~ 85
Aquapor 7000 series	~ 18	~ 50
Aquapor 9000 series	~ 13	~ 35

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

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



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Chemical Industry (p.2/3)



Calcium Carbonate Compounds

Product Name	Aluminium Powder x [%]	Particle Size d_{50} *1 [µm]	Blaine/ Water Coverage *5[g/cm ³]
CaCO₃/7004/x	10/20	~ 85	min. 7 000
CaCO₃/7009/x	10/20	~ 75	min. 13 000
CaCO₃/7114/x	10/20	~ 28	min. 22 000
CaCO₃/UP30/x	10/20	~ 70	min. 3 500

Other compounds are possible.

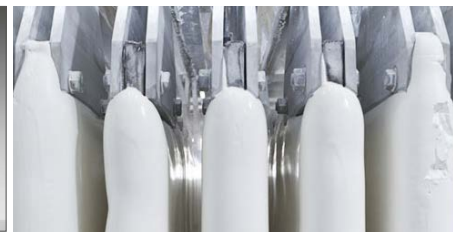
Aluminium Flitters

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

Foil Granules

Product Name	Active Metal Content *4 [%]	Bulk Density *2 [g/cm ³]	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

Test Methods: *1 AQSБ-044 *2 AQSБ-001 *4 AQSБ-012 *5 AQSБ-014



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Chemical Industry (p.3/3)



Atomized Aluminium

Product Name	Active Metal Content *4 [%]	Particle Size d ₅₀ *1 [µm]	Bulk Density *2 [g/cm ³]
Rogal Aluminium 4/34	min. 99.7	~ 21	~ 1.0
Rogal Aluminium 0/63	min. 99.7	~ 35	~ 1.0
Rogal Aluminium 32/75	min. 99.7	~ 40	~ 1.0
Rogal Aluminium 75/2000	min. 99.7	~ 100	~ 1.0

Aluminium Powders for Slurries

Product Name	Water Coverage *5 [g/cm ³]	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. 3	2 - 3

Aluminium Powders for Slurries - Dedusted

Product Name	Water Coverage *5 [g/cm ³]	Screen Analysis *6 >71 µm [%]	Screen Analysis *6 >45 µm [%]	Fat Content *7 [%]
SL/4770 DD	min. 20 000	max. 0.5	max. 7	2 - 3
SL/41130 DD	min. 20 000		max. 1	2 - 3

Test Methods: *1 AQS-044 *2 AQS-001 *4 AQS-012 *5 AQS-014 *6 AQS-003 *7 AQS-040



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Technical Ceramics (p.1/2)

Aluminium Powders - wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm^3]	Recommended Application Density [kg/m^3]
7002	~ 150	~ 300	0.18 - 0.25	≥ 600
7004	~ 85	~ 175	0.16 - 0.21	≥ 600
7114	~ 30	~ 58	0.10 - 0.14	≤ 450
77007	~ 50	~ 120	0.14 - 0.18	≥ 500
77009	~ 35	~ 93	0.15 - 0.18	450 - 600
77010	~ 25	~ 70	0.11 - 0.15	400 - 500
77012	~ 25	~ 60	0.11 - 0.15	400 - 500
77013	~ 22	~ 50	0.11 - 0.15	400 - 500
87007	~ 50	~ 120	0.14 - 0.18	≥ 500
87012	~ 25	~ 60	0.13 - 0.15	400 - 500
87013	~ 25	~ 50	0.13 - 0.16	300 - 450

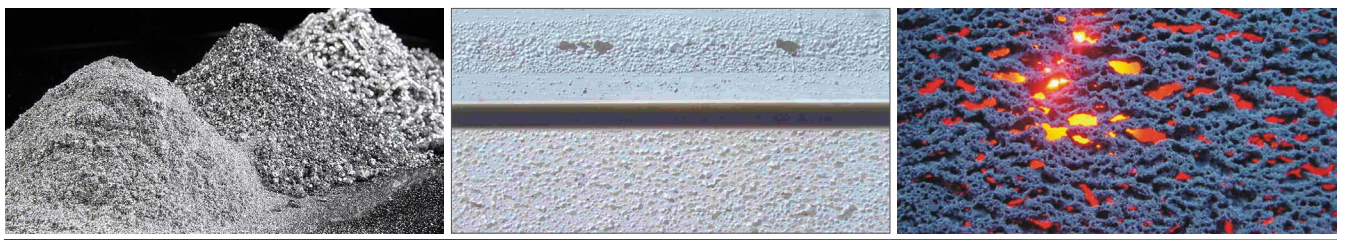
Aluminium Powders - not wettable

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Bulk Density *2 [g/cm^3]	Recommended Application Density [kg/m^3]
76004	~ 60	~ 140	0.16 - 0.23	≥ 600
76007	~ 55	~ 125	0.15 - 0.21	≥ 500
76010	~ 25	~ 70	0.11 - 0.15	400 - 500
76013	~ 22	~ 50	0.11 - 0.15	≤ 450
UP30	~ 65	~ 150	0.10 - 0.20	≥ 500

Atomized Aluminium

Product Name	Active Metal Content *4 [%]	Particle Size d_{90} *1 [μm]	Blaine/ Water Coverage *5 [g/cm^3]
Rogal Aluminium 4/34	min. 99.7	~ 21	~ 1.0
Rogal Aluminium 0/63	min. 99.7	~ 35	~ 1.0
Rogal Aluminium 32/75	min. 99.7	~ 40	~ 1.0
Rogal Aluminium 75/2000	min. 99.7	~ 100	~ 1.0

Test Methods: *1 AQSB-044 *2 AQSB-001 *4 AQSB-012 *5 AQSB-014
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Technical Ceramics (p.2/2)



Waterborne Pastes

Product Name	Particle Size d_{50} *1 [μm]	Particle Size d_{90} *1 [μm]	Recommended Application Density [kg/m^3]
Aquapor 400 series	~ 60	~ 130	≥ 600
Aquapor 1000 series	~ 35	~ 100	500 - 600
Aquapor 3000 series	~ 25	~ 85	500 - 600
Aquapor 7000 series	~ 18	~ 50	400 - 500
Aquapor 9000 series	~ 13	~ 35	≤ 400

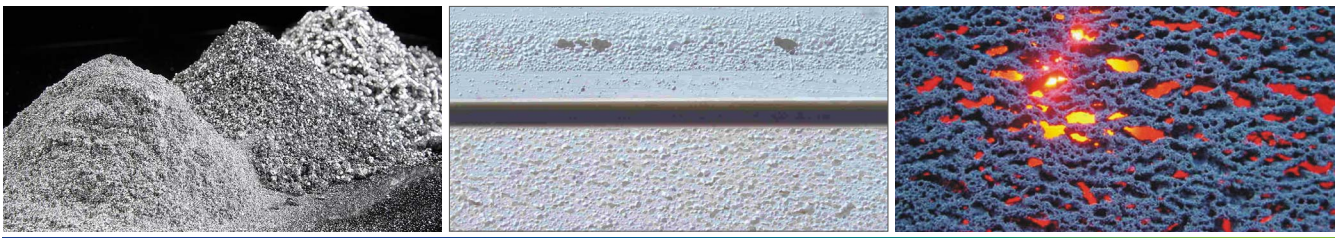
Calcium Carbonate Compounds

Product Name	Aluminium Powder x [%]	Particle Size d_{90} *1 [μm]	Blaine/ Water Coverage *5 [g/cm^3]
CaCO₃/7004/x	10/20	~ 85	min. 7 000
CaCO₃/7009/x	10/20	~ 75	min. 13 000
CaCO₃/7114/x	10/20	~ 28	min. 22 000
CaCO₃/UP30/x	10/20	~ 70	min. 3 500

Other compounds are possible.

Test Methods: *1 AQS_B-044 *2 AQS_B-001 *5 AQS_B-014

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



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Foundry Technology (p.1/1)



Foil Granules

Product Name	Active Metal Content *4 [%]	Bulk Density *2 [g/cm ³]	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

Atomized Aluminium

Product Name	Active Metal Content *4 [%]	Bulk Density *2 [g/cm ³]	Particle Size d ₅₀ *1 [µm]
Rogal Aluminium 4/34	min. 99.7	~ 1.0	~ 21
Rogal Aluminium 0/63	min. 99.7	~ 1.0	~ 35
Rogal Aluminium 32/75	min. 99.7	~ 1.0	~ 40
Rogal Aluminium 75/2000	min. 99.7	~ 1.0	~ 100

Aluminium Powders for Slurries

Product Name	Water Coverage *5 [g/cm ³]	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/cm ³]	Screen Analysis *6 >71 µm [%]	Screen Analysis *6 >45 µm [%]	Fat Content *7 [%]
SL/4770 DD	min. 20 000	max. 0.5	max. 7	2 - 3
SL/41130 DD	min. 20 000		max. 1	2 - 3

Test Methods: *1 AQSБ-044 *2 AQSБ-001 *3 AQSБ-041 *4 AQSБ-012 *5 AQSБ-014 *6 AQSБ-003 *7 AQSБ-040



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Pyrotechnics & Civil Explosives (p.1/1)



Aluminium Flitters

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

Atomized Aluminium

Product Name	Active Metal Content *4 [%]	Bulk Density *2 [g/cm³]	Particle Size d ₅₀ *1 [µm]
Rogal Aluminium 4/34	min. 99.7	~ 1.0	~ 21
Rogal Aluminium 0/63	min. 99.7	~ 1.0	~ 35
Rogal Aluminium 32/75	min. 99.7	~ 1.0	~ 40
Rogal Aluminium 75/2000	min. 99.7	~ 1.0	~ 100

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. 3	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/4930 DD	min. 20 000	max. 0.5	max. 3	2 - 3
SL/41130 DD	min. 20 000		max. 1	2 - 3

Test Methods: *1 AQSБ-044 *2 AQSБ-001 *3 AQSБ-041 *4 AQSБ-012 *5 AQSБ-014 *6 AQSБ-003 *7 AQSБ-040



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