

Technical Aluminiumflakes

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. 16

* Kontakt: S. 16



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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 |
| 7003 | ~ 100 | ~ 240 | 0.16 - 0.23 | ≥ 600 |
| 7004 | ~ 85 | ~ 175 | 0.16 - 0.21 | ≥ 600 |
| 7008 | ~ 65 | ~ 130 | 0.15 - 0.19 | 500 - 600 |
| 7009 | ~ 50 | ~ 115 | 0.11 - 0.15 | 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 | ≤ 450 |
| 7510 | ~ 40 | ~ 80 | 0.11 - 0.15 | 400 - 500 |
| 7514 | ~ 33 | ~ 60 | 0.15 - 0.18 | ≤ 450 |
| 7810 | ~ 40 | ~ 80 | 0.11 - 0.15 | 400 - 500 |
| 7814 | ~ 33 | ~ 60 | 0.15 - 0.18 | ≤ 450 |
| 77004 | ~ 60 | ~ 140 | 0.16 - 0.22 | ≥ 500 |
| 77007 | ~ 50 | ~ 120 | 0.14 - 0.18 | ≥ 500 |
| 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 | ≤ 450 |
| 87013 | ~ 25 | ~ 50 | 0.13 - 0.16 | ≤ 450 |

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

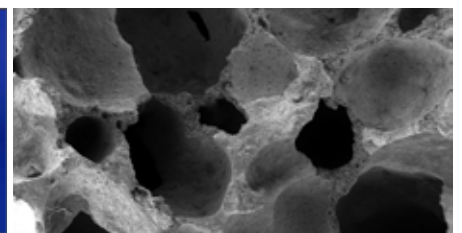
| Product Name | Particle Size d_{50} *1 [μm] | Particle Size d_{90} *1 [μm] | Bulk Density *2 [g/cm^3] | Recommended Application Density [kg/m^3] |
|--------------|--|--|---|---|
| UP30 | ~ 65 | ~ 150 | 0.10 - 0.20 | ≥ 500 |
| UP40 | ~ 55 | ~ 140 | 0.10 - 0.20 | ≥ 500 |
| 76004 | ~ 60 | ~ 140 | 0.16 - 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 | ≤ 450 |
| 76014 | ~ 21 | ~ 48 | 0.11 - 0.16 | ≤ 450 |
| 86013 | ~ 22 | ~ 43 | 0.13 - 0.18 | ≤ 450 |

Waterborne Pastes

| Product Name | Particle Size d_{50} *1 [μm] | Particle Size d_{90} *1 [μm] | Recommended Application Density [kg/m^3] |
|----------------------------|--|--|---|
| Aquapor 300 series | ~ 70 | ~ 150 | ≥ 600 |
| 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 |
| 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)

| Product Name | Particle Size d_{50} ^{*1} [μm] | Particle Size d_{90} ^{*1} [μm] | Recommended Application Density [kg/m^3] |
|------------------------|---|---|--|
| DEG/350 series | ~ 70 | ~ 150 | ≥ 600 |
| 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 | ≤ 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 Wettable Powder

| Product Name | Particle Size d_{50} ^{*1} [μm] | Particle Size d_{90} ^{*1} [μm] | Recommended Application Density [kg/m^3] |
|---------------------|---|---|--|
| DEG/7003/80 | ~ 70 | ~ 150 | ≥ 600 |
| DEG/7004/77 | ~ 60 | ~ 130 | ≥ 600 |
| DEG/7009 | ~ 35 | ~ 100 | 500 - 600 |
| DEG/7112 | ~ 25 | ~ 85 | 400 - 500 |
| DEG/7114 | ~ 18 | ~ 50 | ≤ 450 |
| DEG/7814 | ~ 18 | ~ 50 | ≤ 450 |
| DEG/77013 | ~ 25 | ~ 85 | 400 - 500 |
| DEG/77014 | ~ 18 | ~ 50 | ≤ 450 |
| DEG/87116/65 | ~ 12 | ~ 32 | ≥ 100 |

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)



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 |
| 7009 | ~ 50 | ~ 115 | 0.11 - 0.15 |
| 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 |
| 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 |

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 |
| UP40 | ~ 55 | ~ 140 | 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 |
| CaCO₃/290/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/290R/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/U290XR/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/260R/x | 10 | ~ 24 | min. 18 000 |
| CaCO₃/260XR/x | 10 | ~ 24 | min. 18 000 |
| CaCO₃/U320R/x | 10 | ~ 54 | min. 8 000 |

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 AQS-044 *2 AQS-001 *3 AQS-041 *4 AQS-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 |
| 7009 | ~ 50 | ~ 115 | 0.11 - 0.15 |
| 7114 | ~ 30 | ~ 58 | 0.10 - 0.14 |
| 77007 | ~ 50 | ~ 120 | 0.14 - 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 |
| UP40 | ~ 55 | ~ 140 | 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 300 series | ~ 70 | ~ 150 |
| 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 AQSБ-044 *2 AQSБ-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 |
| CaCO₃/290/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/290R/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/U290XR/x | 10 | ~ 11 | min. 35 000 |
| CaCO₃/260R/x | 10 | ~ 24 | min. 18 000 |
| CaCO₃/260XR/x | 10 | ~ 24 | min. 18 000 |
| CaCO₃/U320R/x | 10 | ~ 54 | min. 8 000 |

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 AQS-044 *2 AQS-001 *4 AQS-012 *5 AQS-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 |
| SL/2770 | min. 18 000 | max. 1 | max. 7 | 2 - 3 |
| SL/2970 | 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/4930 DD | min. 20 000 | max. 0.5 | max. 3 | 2 - 3 |
| SL/4970 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 *4 AQSБ-012 *5 AQSБ-014 *6 AQSБ-003 *7 AQSБ-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 |
| 7009 | ~ 50 | ~ 115 | 0.11 - 0.15 | 500 - 600 |
| 7114 | ~ 30 | ~ 58 | 0.10 - 0.14 | ≤ 450 |
| 77007 | ~ 50 | ~ 120 | 0.14 - 0.18 | ≥ 500 |
| 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 |

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 |
| UP40 | ~ 55 | ~ 140 | 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 AQS-044 *2 AQS-001 *4 AQS-012 *5 AQS-014
 All powders are available in reaction-delayed versions and are available as DEG-Pastes.



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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 300 series | ~ 70 | ~ 150 | ≥ 600 |
| 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 |
| CaCO3/290/x | 10 | ~ 11 | min. 35 000 |
| CaCO3/290R/x | 10 | ~ 11 | min. 35 000 |
| CaCO3/U290XR/x | 10 | ~ 11 | min. 35 000 |
| CaCO3/260R/x | 10 | ~ 24 | min. 18 000 |
| CaCO3/260XR/x | 10 | ~ 24 | min. 18 000 |
| CaCO3/U320R/x | 10 | ~ 54 | min. 8 000 |

Other compounds are possible.

Test Methods: *1 AQSБ-044 *2 AQSБ-001 *5 AQSБ-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. 3 | 2 - 3 |
| SL/2770 | min. 18 000 | max. 1 | max. 7 | 2 - 3 |
| SL/2970 | 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/4930 DD | min. 20 000 | max. 0.5 | max. 3 | 2 - 3 |
| SL/4970 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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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 |
| SL/2770 | min. 18 000 | max. 1 | max. 7 | 2 - 3 |
| SL/2970 | 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/4970 DD | min. 20 000 | max. 0.5 | max. 3 | 2 - 3 |
| SL/41130 DD | min. 20 000 | max. 0.5 | max. 1 | 2 - 3 |

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



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