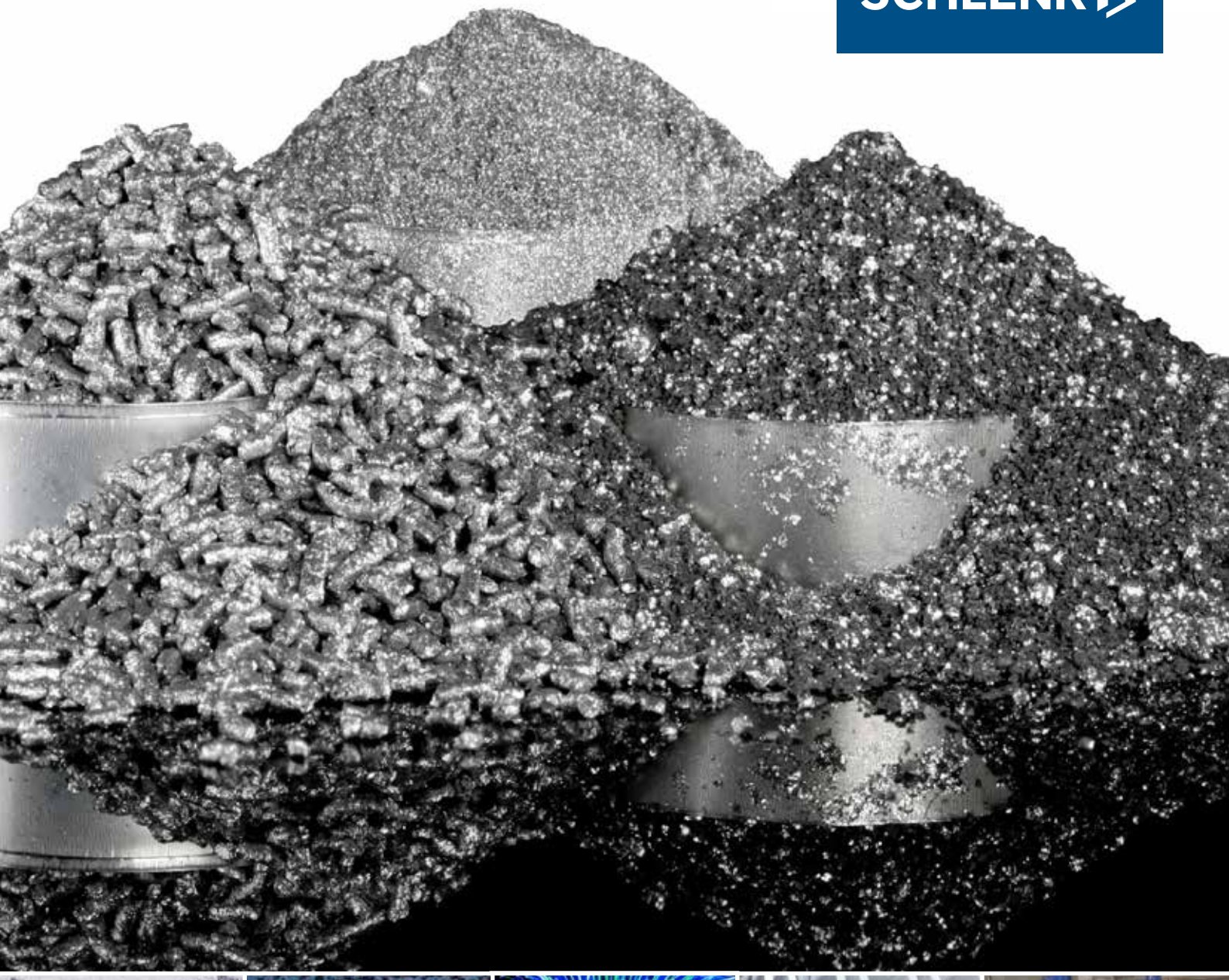

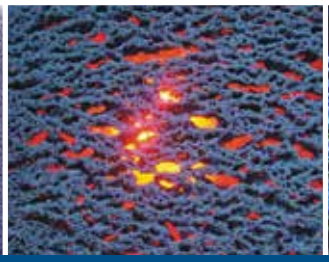

# Technical Aluminiumflakes (TAF)

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

Edition 08/2026

SCHLENK TAF GMBH & CO. KG

Schlenk TAF GmbH & Co. KG • Barnsdorfer Haupstr. 5 • D-91154 Roth-Barnsdorf • Germany
www.schlenk.com • aluflake@schlenk.de

# 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.

*** Contact: p. 21**

# Leistungsspektrum

***SCHLENK produziert an drei Standorten Technische Aluminiumflakes: Am Hauptsitz in Barnsdorf (Deutschland), in Kamnik (Slovenien) und in Bojkovice (Tschechien). Unser Leistungssprektrum 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.

*** Kontakt: S. 21**

# GENERAL INFORMATION

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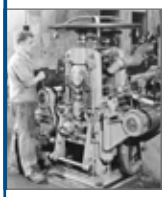
**www.schlenk.com • aluflake@schlenk.de**

## Milestones • Meilensteine

**1879**
**Gründung der Firma durch Carl Schlenk**

**1904**

Company established in the USA
Firmengründung in den USA

**1928**

Foil production
Folienproduktion

**1954**

Aluminium paste manufacturing in a wet milling process
Aluminiumpasten-produktion im Nassmahlverfahren

**1970**

Surface treatment technology
Oberflächen-beschichtungs-technologie

**1994**

Start of VMP technology
Einstieg in die VMP Technologie

**2006**

Press ready ink manufacturing
Produktion von Fertigfarbe

**2012**

Capacity expansion Copper strip manufacturing for solar & automotive applications
Kapazitätsausbau Fertigung Kupferbänder für Solar & Automobil

**2015**
Presentation of new pigment technology European Coatings Show
Vorstellung neue Pigmenttechnologie European Coatings Show

**2016**
Expansion: New aluminiumpowder plant for the aerated concrete industry
Erweiterung eines Aluminium-Pulverwerks für Porenbetonindustrie

**2017**
Installation of modern rolling mill for challenging requirements
Inbetriebnahme modernes Walzwerk für höchste Anforderungen

**2019**
Construction of new technical warehouse
Neubau Technikgebäude

**2020**
Bavarian Innovation Price for Ultrathin Pigment Technology of Zenexo®
Innovationspreis Bayern für Ultradünne Pigment Technology von Zenexo®

**2023**
Transformation of Carl Schlenk AG in SCHLENK SE
Transformation der Carl Schlenk Aktiengesellschaft in SCHLENK SE

## 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

**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, Slowenia
Schlenk PIGMENTI METALLICI SRL in Milan, Italy

*Location* / *Standort*
*Distribution* / *Vertrieb*

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- Calcium Carbonate Compounds

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- Aluminium Powders for Slurries
- Aluminium Powders for Slurries - dedusted

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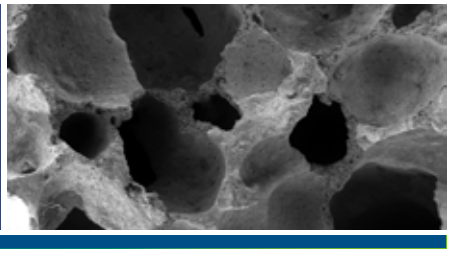
# Autoclaved Aerated Concrete (AAC) (p.1/3)

## Aluminium Powders - wettable

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Bulk Density *2 [g/cm³] | Recommended Application Density [kg/m³] |
|---|---|---|---|---|
| **7002** | ~ 170 | ~ 300 | 0.23 - 0.29 | ≥ 600 |
| **7004** | ~ 85 | ~ 175 | 0.16 - 0.21 | ≥ 600 |
| **7009** | ~ 40 | ~ 95 | 0.11 - 0.15 | 500 - 600 |
| **7110** | ~ 35 | ~ 85 | 0.11 - 0.15 | 400 - 500 |
| **7112** | ~ 30 | ~ 70 | 0.11 - 0.15 | 400 - 500 |
| **7114** | ~ 28 | ~ 60 | 0.10 - 0.14 | ≤ 450 |
| **7210** | ~ 40 | ~ 70 | 0.11 - 0.15 | 400 - 500 |
| **7213** | ~ 30 | ~ 50 | 0.14 - 0.18 | ≤ 450 |
| **77213** | ~ 20 | ~ 50 | 0.14 - 0.18 | ≤ 450 |
| **77004** | ~ 70 | ~ 145 | 0.16 - 0.21 | ≥ 600 |
| **77007** | ~ 60 | ~ 130 | 0.16 - 0.21 | ≥ 500 |
| **77009** | ~ 40 | ~ 95 | 0.15 - 0.19 | 500 - 600 |
| **77010** | ~ 25 | ~ 65 | 0.13 - 0.17 | 400 - 500 |
| **77012** | ~ 23 | ~ 60 | 0.13 - 0.17 | 400 - 500 |
| **77013** | ~ 22 | ~ 52 | 0.12 - 0.16 | 350 - 500 |
| **77014** | ~ 21 | ~ 48 | 0.11 - 0.15 | 100 - 400 |
| **87007** | ~ 65 | ~ 120 | 0.12 - 0.16 | ≥ 500 |
| **87010** | ~ 35 | ~ 65 | 0.11 - 0.15 | 400 - 500 |
| **87012** | ~ 28 | ~ 55 | 0.12 - 0.16 | 400 - 500 |
| **87013** | ~ 25 | ~ 45 | 0.13 - 0.17 | ≤ 450 |
| **87014** | ~ 23 | ~ 45 | 0.11 - 0.15 | 100 - 400 |

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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# 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/cm³] | Recommended Application Density [kg/m³] |
|---|---|---|---|---|
| **76004** | ~ 65 | ~ 135 | 0.10 - 0.20 | ≥ 500 |
| **76007** | ~ 50 | ~ 110 | 0.17 - 0.23 | ≥ 500 |
| **76010** | ~ 30 | ~ 70 | 0.14 - 0.18 | 400 - 500 |
| **76011** | ~ 25 | ~ 65 | 0.13 - 0.17 | 400 - 500 |
| **76013** | ~ 22 | ~ 50 | 0.13 - 0.17 | ≤ 450 |
| **76014** | ~ 21 | ~ 48 | 0.12 - 0.16 | ≤ 450 |
| **86013** | ~ 22 | ~ 45 | 0.13 - 0.18 | ≤ 450 |

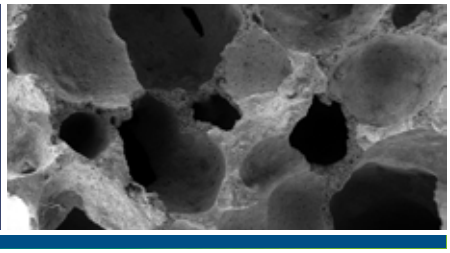
All powders are available in reaction-delayed versions and are available as DEG-Pastes.

## Waterborne Pastes - stabilised

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Recommended Application Density [kg/m³] |
|---|---|---|---|
| **Aquapor 1000 series** | ~ 35 | ~ 110 | 500 - 600 |
| **Aquapor 3000 series** | ~ 25 | ~ 85 | 500 - 600 |
| **Aquapor 7000 series** | ~ 18 | ~ 50 | 400 - 500 |
| **Aquapor 9000 series** | ~ 15 | ~ 37 | ≤ 400 |
| **Aquapor 70004 series** | ~ 60 | ~ 125 | ≥ 600 |
| **Aquapor 70007 series** | ~ 45 | ~ 110 | ≥ 600 |
| **Aquapor 70010 series** | ~ 25 | ~ 65 | 400 - 500 |
| **Aquapor 70013 series** | ~ 20 | ~ 50 | 350 - 450 |

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

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



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

## Solventborne Pastes (Diethylene Glycol) - stabilised

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Recommended Application Density [kg/m³] |
|---|---|---|---|
| **DEG/1500 series** | ~ 35 | ~ 110 | 500 - 600 |
| **DEG/3500 series** | ~ 25 | ~ 85 | 500 - 600 |
| **DEG/7500 series** | ~ 18 | ~ 50 | 400 - 500 |
| **DEG/9500 series** | ~ 13 | ~ 37 | ≤ 400 |
| **DEG/75004 series** | ~ 60 | ~ 125 | ≥ 600 |
| **DEG/75007 series** | ~ 45 | ~ 110 | ≥ 600 |
| **DEG/75009 series** | ~ 40 | ~ 95 | ≥ 500 |
| **DEG/75010 series** | ~ 25 | ~ 65 | 400 - 500 |
| **DEG/75013 series** | ~ 20 | ~ 50 | 350 - 450 |

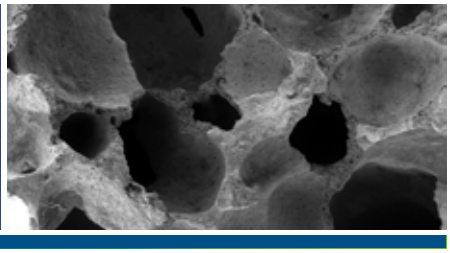
All pastes are available with different solid content and different reaction delay.

## Solventborne Pastes (Diethylene Glycol) from wettable powders - not stabilised

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Recommended Application Density [kg/m³] |
|---|---|---|---|
| **DEG/77004/77** | ~ 70 | ~ 140 | ≥ 600 |
| **DEG/77007** | ~ 60 | ~ 130 | 500 - 600 |
| **DEG/77009** | ~ 40 | ~ 90 | 500 - 600 |
| **DEG/77010 series** | ~ 25 | ~ 65 | 400 - 500 |
| **DEG/77112** | ~ 25 | ~ 60 | 400 - 500 |
| **DEG/77013 series** | ~ 23 | ~ 50 | 350 - 500 |
| **DEG/77014 series** | ~ 22 | ~ 48 | ≤ 450 |
| **DEG/87116/65** | ~ 14 | ~ 30 | 100 - 400 |

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

**Test Method:** *1 AQSB-044



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# Plasters and Screeds (p.1/3)

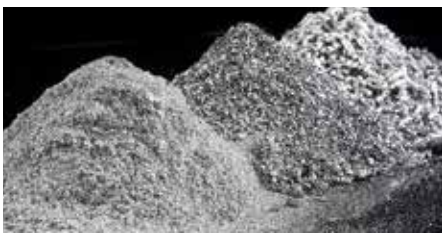
The products for the application in plasters, renders and screeds are primarily used for reducing and avoiding shrinkage cracks (due to the expansion because of pore building). Additionally they are applied in formulations for restauration - and insulating renders to create a target pore structure.

## Aluminium Powders - wettable

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Bulk Density *2 [g/cm³] |
|---|---|---|---|
| **7002** | ~ 170 | ~ 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** | ~ 45 | ~ 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 | ~ 130 | 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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# Plasters and Screeds (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/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 |

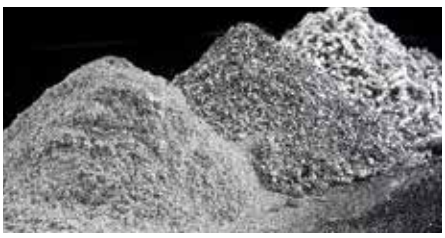
All powders are available in reaction-delayed versions and are available as DEG-Pastes.

## Calcium Carbonate Compounds

| Product Name | Aluminium Content x [%] | Particle Size $d_{50}$ *1 [µm] | Blaine/ Water Coverage *5 [g/cm³] |
|---|---|---|---|
| **CaCO3/7004/x** | 10/20 | ~ 85 | min. 7 000 |
| **CaCO3/7114/x** | 10/20 | ~ 28 | min. 22 500 |
| **CaCO3/77004/x** | 10/20 | ~ 70 | min. 7 000 |
| **CaCO3/77009/x** | 10/20 | ~ 40 | min. 13 000 |
| **CaCO3/77014/x** | 10/20 | ~ 21 | min. 19 000 |
| **CaCO3/76004/x** | 10/20 | ~ 65 | min. 3 500 |
| **CaCO3/290/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/290R/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/U290XR/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/260R/x** | 10/20 | ~ 25 | min. 18 000 |
| **CaCO3/260XR/x** | 10/20 | ~ 25 | min. 18 000 |
| **CaCO3/U320R/x** | 10/20 | ~ 55 | min. 8 000 |

Other compounds are possible.

**Test Methods:** ***1 AQSB-044** ***2 AQSB-001** ***5 AQSB-010/014**



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# Plasters and Screeds (p.3/3)

## 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 |

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

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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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# Foundry Technology (p.1/1)

## 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** ***4 AQSB-012** ***5 AQSB-010/014** ***6 AQSB-003** ***7 AQSB-017**

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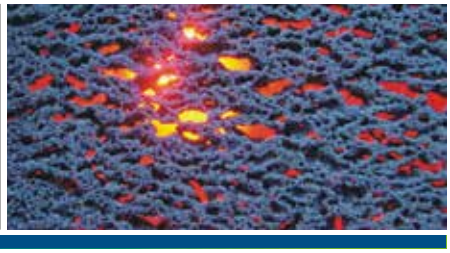
# Technical Ceramics (p.1/4)

## Aluminium Powders - wettable

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] | Bulk Density *2 [g/cm³] |
|---|---|---|---|
| **7002** | ~ 170 | ~ 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 | ~ 130 | 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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# Technical Ceramics (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 |

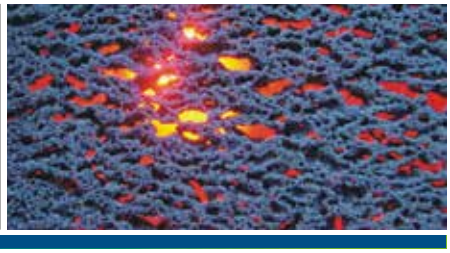
All powders are available in reaction-delayed versions and are available as DEG-Pastes.

## 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 |
| **A70004 series** | ~ 60 | ~ 125 |
| **A70007 series** | ~ 45 | ~ 110 |
| **A70010 series** | ~ 25 | ~ 65 |
| **A70013 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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# Technical Ceramics (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 |

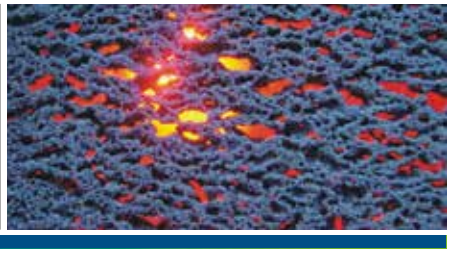
All pastes are available with different solid content and different reaction delay.

## Solventborne Pastes (Diethylene Glycol) - from wettable powders

| Product Name | Particle Size $d_{50}$ *1 [µm] | Particle Size $d_{90}$ *1 [µm] |
|---|---|---|
| **DEG/77004/77** | ~ 70 | ~ 140 |
| **DEG/77007** | ~ 60 | ~ 130 |
| **DEG/77009** | ~ 40 | ~ 90 |
| **DEG/77010 series** | ~ 25 | ~ 65 |
| **DEG/77112** | ~ 25 | ~ 60 |
| **DEG/77013 series** | ~ 23 | ~ 50 |
| **DEG/77014 series** | ~ 22 | ~ 48 |
| **DEG/87116/65** | ~ 14 | ~ 30 |

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

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



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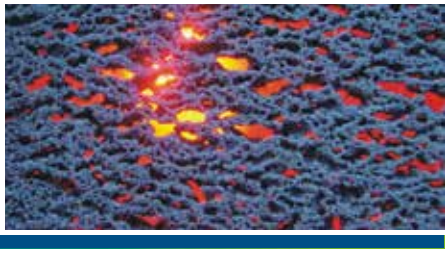
# Technical Ceramics (p.4/4)

## Calcium Carbonate Compounds

| Product Name | Aluminium Content x [%] | Particle Size $d_{50}$ *1 [µm] | Blaine/ Water Coverage *5 [g/cm³] |
|---|---|---|---|
| **CaCO3/7004/x** | 10/20 | ~ 85 | min. 7 000 |
| **CaCO3/7114/x** | 10/20 | ~ 28 | min. 22 500 |
| **CaCO3/77004/x** | 10/20 | ~ 70 | min. 7 000 |
| **CaCO3/77009/x** | 10/20 | ~ 40 | min. 13 000 |
| **CaCO3/77014/x** | 10/20 | ~ 21 | min. 19 000 |
| **CaCO3/76004/x** | 10/20 | ~ 65 | min. 3 500 |
| **CaCO3/290/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/290R/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/U290XR/x** | 10/20 | ~ 10 | min. 35 000 |
| **CaCO3/260R/x** | 10/20 | ~ 25 | min. 18 000 |
| **CaCO3/260XR/x** | 10/20 | ~ 25 | min. 18 000 |
| **CaCO3/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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# 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 | ~ 0.15 - 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 |

## 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/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-014 *6 AQSB-003 *7 AQSB-017

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