

Einsatzbeispiele /
Applications

Herstellung extrem beanspruchbarer Oxidkeramikkörper mit sehr hohem Al₂O₃-Gehalt über isostatisches und axiales Pressen, Schlickerguß und Spritzguß; Folienguß (Substrate)

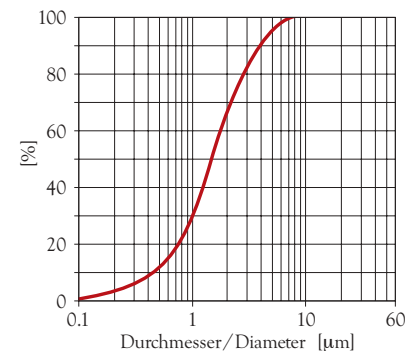
Production of wear-resistant oxide ceramics with very high Al₂O₃-content for extreme service using isostatic and axial pressing, slip casting; injection molding, tape casting (substrate).

Durchschnittsanalyse /
Typical analysis

| | | |
|---|----------------------|--------|
| Al ₂ O ₃ | [%] | ≈ 99.8 |
| Na ₂ O total | | ≤ 0.1 |
| CaO | | ≤ 0.05 |
| Fe ₂ O ₃ | | ≤ 0.04 |
| SiO ₂ | | ≤ 0.07 |
| α-Al ₂ O ₃ | [%] | ≥ 95 |
| Glühverlust / Loss on Ignition | [%] | ≤ 0.3 |
| Spezifische Oberfläche / Specific Surface Area (BET) | [m ² /g] | 6 - 9 |
| Primärkorn / Primary Crystal | [µm] | ≈ 1.5 |
| Schüttdichte / Bulk Density | [kg/m ³] | ≈ 1200 |
| Wasseraufnahme / Water Adsorption | [ml/100 g] | ≈ 16 |

Korngrößenverteilung /
Particle Size Distribution (Cilas 1064)

| | |
|-----------------|----------------|
| d ₁₀ | 0.3 - 0.5 [µm] |
| d ₅₀ | 1 - 1.7 [µm] |
| d ₉₀ | 3 - 6 [µm] |
| > 45 µm | 0 [%] |



Shipping Information

Transportation classification: not regulated for transportation
Harmonized tariff number: 28182000

Packaging and minimum order quantity information is available from sales or customer service.

Safety and Handling Information

For specific safety, toxicity and handling information, please refer to the material safety data sheet on this product.

Chemical Registration Numbers

Chem. Bezeichnung: Aluminiumoxid
Formel: Al_2O_3
CAS No. : 1344-28-1
EG-/EINECS No.: 215-691-6
UN-Nr.: ~



▲, ALBEMARLE, MARTINSWERK, MARTOXID, COMPALOX are trademarks of Albemarle Corporation

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patents.

AMERICAS

Albemarle Corporation
451 Florida Street
Baton Rouge, Louisiana 70801-1765
Phone: 225-388-7402
Toll-Free: 800-535-3030
Fax: 225-388-7848

EUROPE, MIDDLE EAST, AFRICA

Albemarle Europe SPRL
Parc Scientifique Einstein
Rue du Bosquet 9
B-1348 Louvain-la-Neuve Sud, Belgium
Phone: 32-10-48-1711
Fax: 32-10-48-1717
Martinswerk GmbH
Kölner Straße 110
D-50127 Bergheim
Phone: 49-2271-902-467
Fax: 49-2271-902-710

ASIA PACIFIC

Albemarle Asia Pacific Company
111 Somerset Road # 13-03
Singapore 238164
Phone: 65-6732-6286
Fax: 65-6737-4155

Albemarle Asano Corporation
16th Floor, Fukoku Seimei Building
2-2, Uchisaiwaicho, 2-Chome
Chiyoda-ku, Tokyo 100, Japan
Phone: 81-3-5251-0791
Fax: 81-3-3500-5623

China World Tower, Room 1317
No. 1 Jian Guo Men Wai Avenue
Beijing 100004 China
Phone: 86-10-6505-4153 and -54
Fax: 86-10-6505-4150

INTERNET

www.martinswerk.de
www.albemarle.com