

MULLITE

Characteristics

> Mullite ($3 \text{ Al}_2\text{O}_3 - 2 \text{ SiO}_2$) is a material known for offering key benefits such as:

- High strength and toughness
- Thermal shock resistance
- Low thermal expansion
- Low thermal conductivity
- Lightweight (compared to other ceramics)
- Electrical insulation
- Refractoriness
- Good chemical stability
- Good dielectric transparency

> To further enhance these advantages, Baikowski® has been developing **high phasic purity mullites**, available in **slurries and spray-dried powders**, that feature:

- Specific surface area (SSA): **35 m²/g**
- Particle size: **<0.2 μm**

Applications

> Baikowski® can design tailored mullite solutions, specifically incorporating nano-zirconia doping, to meet the requirements of advanced applications.



COATING



CMC



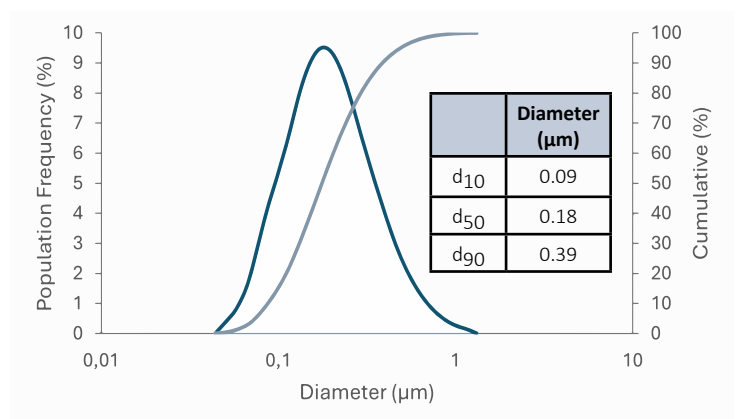
TECHNICAL CERAMICS



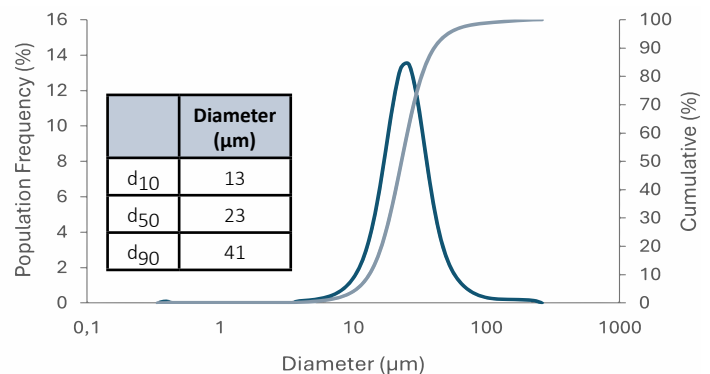
PRODUCT DESIGN

Any particular process issue? Let us know your requirements and we will design, together, the best solution for your needs.

Slurry - 50 wt% - pH 8.5 - PSD (Horiba)



Spray dried powder - PSD (Horiba - dry way)





Your solution partner for fine minerals



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