

# MULLITE

## Characteristics

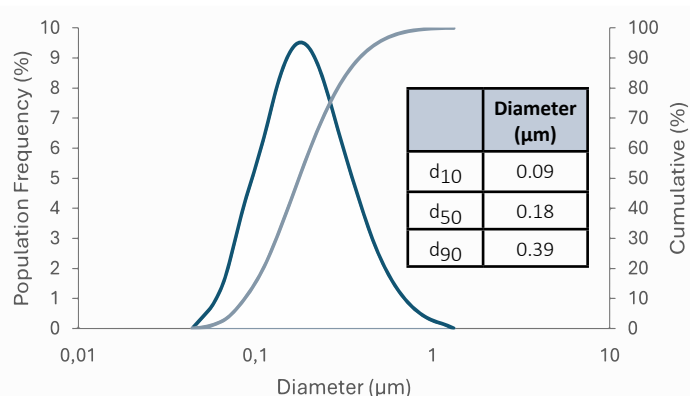
> Mullite ( $3 \text{ Al}_2\text{O}_3 - 2 \text{ SiO}_2$ ) is a material known for offering key benefits such as:

- 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

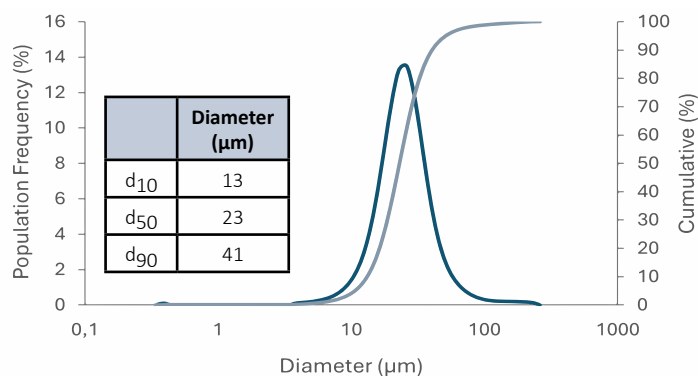
> To further enhance these advantages, Baikowski® has been developing **high phasic purity mullites**, available in **slurries and spray-dried powders**, that feature:

- Specific surface area (SSA): **35 m<sup>2</sup>/g**
- Particle size: **<0.2 μm**

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



Spray dried powder - PSD (Horiba – dry way)



## Applications

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



COATING



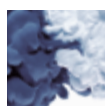
CMC



TECHNICAL  
CERAMICS



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



Your solution partner for fine minerals



Baikowski® 

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