

INSULATING POWDER MADE OF DEGUSSIT® AL₂O₃

APPLICATIONS

- ▶ Electrical insulation of cathode heaters, heating coils and heaters in electron tubes
- ▶ Coating of wires by dipping, spraying and electrophoresis
- ▶ Fillers of casting resins

Al ₂ O ₃ calcined	Main component	Average crystal size	Working temperature	Curing temperature	Bulk density
Article no. F251-11000-1025	Al ₂ O ₃ > 99.5%	~ 2.9 μm	1,900 °C	1,200 °C	850 g/L

APPLICATIONS

- ▶ Dry filling for thermal insulation of electrical furnaces

Al ₂ O ₃ powder fused	Main component	Average crystal size	Working temperature	Curing temperature	Bulk density
Article no. F251-11000-1100	Al ₂ O ₃ > 99.7%	~ 150 μm	1,900 °C		1,600 g/L
Article no. F251-11000-1250	Al ₂ O ₃ > 99.7%	~ 40 μm	1,900 °C		1,900 g/L

CEMENT MADE OF DEGUSSIT® AL₂O₃

APPLICATIONS

- ▶ Sealing in furnace linings, embedding of heating coils or platinum crucibles

PROCESSING INSTRUCTIONS

The cement is diluted with water to the requested consistency. Since it is not cold-hardening, it contains 0.5% organic binder to increase its dry strength. This binder is burned off completely during the heating process. If sintering is not practicable due to possible oxidation of metal parts, instead of water sodium or potassium water glass may be used.

Al ₂ O ₃ cement	Main component	Average crystal size	Working temperature	Curing temperature	Bulk density
Article no. F251-15000-1010	Al ₂ O ₃ ~ 95% SiO ₂ ~ 5%	~ 150 μm	1,800 °C	1,250 °C	1,500 g/L