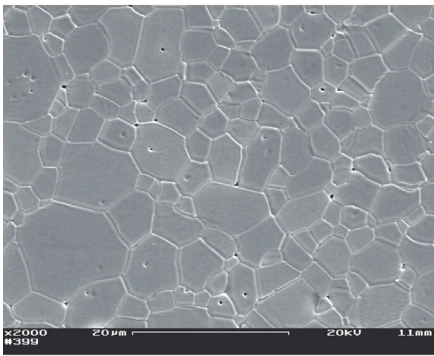


KA997

Aluminum Oxide 99,78%



Key Benefits

- Low coefficient of friction
- Excellent wear resistance
- High corrosion resistance
- Good thermal conductivity
- Good dielectric properties

Typical Applications

- High temperature labware
- Furnace construction
- Abrasives industry
- Mechanical engineering
- Pump & compressor industry
- Chemical & pharmaceutical industry

Main Properties

Parameters	Unit	KA997
Density	g/cm ³	3.9
Open porosity	%	0
Flexural strength @ 20°C	MPa	400
Hardness @ 20°C	GPa	19.3
Fracture Toughness @ 20°C	MPa x m ^{1/2}	3.5
Young's Modulus @ 20°C	GPa	370
Thermal conductivity @ 20°C	W/mK	28
Thermal expansion (20°C- 1000°C)	x10 ⁻⁶ /K	8.6
Maximum working temp (No Load)	°C	1550
Electrical resistivity @ 20°C	Ω.cm	> 10 ¹³

Chemical Composition

Analysis	Approximate figures %
Al ₂ O ₃	99.78
CaO	<0.05
SiO ₂	<0.05
Fe ₂ O ₃	<0.03
MgO	0.1