Alumina Cylindrical Crucible

Formula: Al?O?
Percentage Purity: 99.8%
Capacity: 2.5ml
Outside Diameter: 16mm
Inside Diameter: 13.5mm
Height: 21mm
CAS Number: 1344-28-1
UOM Code: 106-670-20
SKU: 1000019695-group
Product Code: AL60-CB-000114

Material Properties for Ceramics

Chemical Resistance

Element	Value
Acids - concentrated	Good
Acids - dilute	Good
Alkalis	Good
Halogens	Good
Metals	Good

Electrical Properties

Element	Value
Dielectric constant	9-10.1
Dielectric strength(kV mm?¹)	Oct-35
Volume resistivity(Ohmcm)	>10¹?@25

Physical Properties

Element	Value
Apparent porosity(%)	0
Water absorption - saturation(%)	0
Density(gcm?³)	3.9

Thermal Properties

Element	Value
Melting point(C)	2100
Upper continuous use temperature(C)	1700
Specific heat(J K?¹ kg?¹)	850-900@25°C
Thermal conductivity(W m?¹ K?¹)	26-35@20°C
Coefficient of thermal expansion(x10?? K?¹)	8@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	300-400
Hardness - Knoop(kgf mm?²)	2100
Hardness - Vickers(kgf mm?²)	1500-1650
Shear strength(MPa)	330
Tensile strength(MPa)	260-300

Pultrusions

Element	Value
Compressive strength(MPa)	2200-2600