

Yttria-stabilized Zirconia E-Beam Crucible

Formula: ZrO_2/Y_2O_3

Outside Diameter: 51.56mm

External Height: 25.9mm

Angle: 15°

CAS Number: 114168-16-0

UOM Code: 414-956-72

SKU: 1000165947-group

Product Code: ZR61-CB-000362

Material Properties for Ceramics

Thermal Properties

Element	Value
Melting point(C)	2700
Upper continuous use temperature(C)	2200
Specific heat(J K ⁻¹ kg ⁻¹)	400-500@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	2.5@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	10@20-1000°C

Physical Properties

Element	Value
Density(gcm ⁻³)	5.9

Mechanical Properties

Element	Value
Tensile modulus(GPa)	200
Hardness - Vickers(kgf mm ⁻²)	1250
Tensile strength(MPa)	300-600

Pultrusions

Element	Value
Compressive strength(MPa)	2000