

Yttria-stabilized Zirconia Pellet Boat Crucible

Formula: $\text{ZrO}_2/\text{Y}_2\text{O}_3$

External Height: 7mm

External Length: 75mm

External Width: 22mm

CAS Number: 114168-16-0

UOM Code: 783-404-94

SKU: 1000218466-group

Product Code: ZR61-CB-000409

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