

Yttria-stabilized Zirconia Hexagonal Bolt

Formula: ZrO₂/Y₂O₃

Head Style: Hexagonal Head

Size: M2 x 10mm

Quantity: 10 Pcs

Pitch: 0.4mm

Standard: ANSI B18.6.7M-1985

CAS Number: 114168-16-0

UOM Code: 004-821-27

SKU: 1000000626-group

Product Code: ZR61-BT-000121

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