

Specification Sheet

ZrO₂•Y₂O₃, 99.9%, APS 50-60μm

Stock No: NS6130-12-000627, CAS: 114168-16-0

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|------------------------------------|---|--|
| Product | : | Zirconium IV Oxide -Yttria Stabilized |
| Stock No | : | NS6130-12-000627 |
| CAS | : | 114168-16-0 |
| Purity | : | 99.9% |
| APS | : | 50-60μm |
| Molecular Formula | : | ZrO ₂ •Y ₂ O ₃ |
| Molecular Weight | : | 349.03g/mol |
| Density | : | 6.04g/cc |
| Tensile Strength | : | 500MPa |
| Compressive Strength | : | >2000MPa |
| Young's Modulus of Elasticity | : | 205GPa |
| Hardness | : | 91 |
| Fracture Toughness K _{1C} | : | 8.0MPam ^{1/2} |
| Porosity | : | 0% |
| Thermal Conductivity | : | 2.0 W/(mK) |
| Thermal Shock Resistance | : | 250 ΔT °C |
| Maximum Temperature | : | 1000 °C |
| Electrical Resistivity | : | 109 Ω/ m |
| Main Inspect Verifier | : | Manager QC |

Note: Product Specification are subject to amendment and may change over time