



Alumina Rods for flame spraying



Properties	Applications	Available rod sizes
High Electrical Resistive	High Temperatures Strain Gages	99.7%Al ₂ O ₃
Stability At High Temperatures	Suitable for use in equipment Rokide [®]	Diameter: 6.25mm ±0.1mm, length: 620 mm

Spray parameters

Acetylene	Pressure: 15 psi (~0.1 mpa)	Ball Height: 60+ SCFH
Oxygen	Pressure: 90 psi (~0.6 mpa)	Ball Height: 90+ SCFH
Air	Pressure: 80 psi (~0.55 mpa)	
Standoff Distance	4 inches (10 cm)	
Rod Speed	4-5 in/min (10-13 cm/min)	
Lay Down Rate	0.5 Lbs/hr (0.23 Kg/hr)	
Deposit Efficiency	78%	

Packaging

Rod Type	6.25mm ±0.1mm,
Rods Packaged in tubes	100 rods
Tube weight	5.5 Kg

Coating features

Physical	
Color	White
Total porosity	10.4 %
Bulk Density	3.2 g/cm ³
Crystal Phase	Gamma Alumina

Mechanical	
Coating Hardness	750 Vickers/DPH
Bond Strength	26 mpa

Electrical	
Conductivity	Nonconductor
Dielectric Strength	(AC Volts/mil Thk.) 0.005" Thk. - 160
Dielectric Constant	10 at -18 °C til +316 °C
Dissipation Factor	0.05 at -18 °C til +316 °C
Loss Factor	0.5"

Thermal	
Coefficient of Expansion	7.38 × 10 ⁻⁶ from 21-1232°C ⁻¹
Melt Temperature	Approx. 2000°C