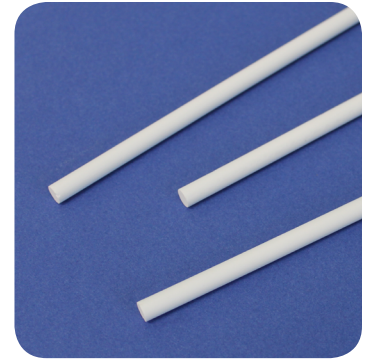


# Rokide® Rods Technical Bulletin



## ROKIDE® EZ (Zirconium Oxide) Ceramic Rod for Thermal Spraying

### PROPERTIES

- Good Resistance to Mechanical Friction
- Good Abrasion Resistance

### AVAILABLE ROD SIZES

- 989100194000 - 1/4" Diameter x 18" Length (4.75 mm x 457 mm)

### TYPICAL CHEMICAL COMPOSITION (%)

ZrO <sub>2</sub>	91.84*
TiO <sub>2</sub>	0.21
SiO <sub>2</sub>	2.62
CaO	3.92
Al <sub>2</sub> O <sub>3</sub>	1.33
Fe <sub>2</sub> O <sub>3</sub>	0.03
MgO	0.05

\* Includes Hafnium

### APPLICATIONS

- Hot Metal Extrusion Dies

### SPRAY PARAMETERS

Acetylene	Pressure: 15 psi	Ball Height: 60+
Oxygen	Pressure: 90 psi	Ball Height: 90+
Air	Pressure: 80 psi	
Standoff Distance	4 inches (10 cm)	

Rod Type	989100194000
Nozzle	987733213000
	987733279000
Air Cap	987733281000
Rod Speed	4-4.5 in/min (10-12 cm/min)
Lay Down Rate	1.62 Lbs/hr (0.73 Kg/hr)
Deposit Efficiency	61%

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SAINT-GOBAIN COATING SOLUTIONS

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# ROKIDE® EZ (Zirconium Oxide) Ceramic Rod for Thermal Spraying



## COATING FEATURES

PHYSICAL	
Color	Light Tan
Total porosity	8.6%
Bulk Density	4.8 g/cc
Crystal Phase	Cubic Zirconia

MECHANICAL	
Coating Hardness	694 (Vickers/DPH)
Bond Strength	4621 psi
Sand Blast Penetration	0.0148 Depth/mm
Falex Wear test	97.2 mm <sup>3</sup> /KMS

ELECTRICAL	
Conductivity	Nonconductor

## PACKAGING

<b>Rod Type</b>	989100194000 (1/4" x 18")
Rods Packaged in tubes	100 rods
(3) Tubes per Cardboard Box	300 rods
Bulk shipment - Rocon Drum	1,600 rods
Tube weight	11.5 Lbs. (5.2 Kg)

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