

Rokide® Rods Technical Bulletin



ROKIDE® MBC (Chrome Oxide) Ceramic Rod for Thermal Spraying

PROPERTIES

- Good Resistance to Mechanical Friction
- Good Abrasion Resistance

AVAILABLE ROD SIZES

- 989100298000 - 1/4" Diameter x 24" Length (6.35 mm x 610 mm)

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	989100298000 (1/4" X 24")
Nozzle	987733213000
	987733279000
Air Cap	987733281000
Rod Speed	8-10 in/min (20-25 cm/min)
Lay Down Rate	1.25 Lbs/hr (0.57 Kg/hr)
Deposit Efficiency	48%

APPLICATIONS

- Pump Sleeves
- Pump Shafts
- Impellers
- Casings
- Pump End Plates
- Mud Pump Shafts
- Mechanical Seal Faces
- Valve Stems
- Suction Box Covers
- Oil Seals
- Wire Drawing Capstans
- Wire Draw Blocks
- Sheaves
- Drawing Rolls
- Guides
- Pulleys
- Heat Seal Bars
- Heat Seal Jaws

ROKIDE® MBC (Chrome Oxide) Ceramic Rod for Thermal Spraying



PACKAGING

Rod Type	989100298000 (1/4" x 24")
Rods Packaged in tubes	100 rods
(3) Tubes per Cardboard Box	300 rods
Bulk shipment - Rocon Drum	1,600 rods
Tube weight	11 Lbs. (5.0 Kg)

COATING FEATURES

PHYSICAL	
Color	Black
Total porosity	9.8%
Bulk Density	4.2 g/cc
Crystal Phase	Eskolaite

MECHANICAL	
Coating Hardness	1003 (Vickers/DPH)
Bond Strength	4525 psi
Sand Blast Penetration	0.0054 Depth/mm
Falex Wear test	7.9 mm ³ /KMS

ELECTRICAL	
Conductivity	Nonconductor

TYPICAL CHEMICAL COMPOSITION (%)

Cr ₂ O ₃	88.39
SiO ₂	6.53
Al ₂ O ₃	1.35
Fe ₂ O ₃	0.18
CaO	1.58
MgO	1.78
Other	0.19

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