

CoorsTek ACI-Ni10 Tungsten Carbide

Category : Ceramic , Carbide

Material Notes:

Applications: seal rings, plungers, liners, nozzles, valve components, pump components, wear components in the oil & gas, construction, and agriculture equipment industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_CoorsTek-ACI-Ni10-Tungsten-Carbide.php

Physical Properties	Metric	English	Comments
Density	14.4 g/cc	0.520 lb/in ³	
Particle Size	3.0 - 5.0 µm	3.0 - 5.0 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	90	90	
Modulus of Elasticity	572 GPa	83000 ksi	
Flexural Strength	2930 MPa	425000 psi	
Poissons Ratio	0.23	0.23	
Shear Modulus	233 GPa	33800 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 µm/m-°C	3.00 µin/in-°F	
	@Temperature 25.0 - 400 °C	@Temperature 77.0 - 752 °F	
	5.60 µm/m-°C	3.11 µin/in-°F	
	@Temperature 25.0 - 800 °C	@Temperature 77.0 - 1470 °F	
Specific Heat Capacity	0.215 J/g-°C	0.0514 BTU/lb-°F	
Thermal Conductivity	75.0 W/m-K	521 BTU-in/hr-ft ² -°F	

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