

CoorsTek ACI-Ni6 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-Ni6-Tungsten-Carbide.php

Physical Properties	Metric	English	Comments
Density	14.95 g/cc	0.5401 lb/in ³	
Particle Size	1.0 - 3.0 µm	1.0 - 3.0 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	92	92	
Modulus of Elasticity	607 GPa	88000 ksi	
Flexural Strength	1720 MPa	249000 psi	
Poissons Ratio	0.25	0.25	
Shear Modulus	243 GPa	35200 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.20 µm/m-°C	2.89 µin/in-°F	
	@Temperature 25.0 - 400 °C	@Temperature 77.0 - 752 °F	
	5.80 µm/m-°C	3.22 µin/in-°F	
	@Temperature 25.0 - 800 °C	@Temperature 77.0 - 1470 °F	
Specific Heat Capacity	0.210 J/g-°C	0.0502 BTU/lb-°F	
Thermal Conductivity	82.0 W/m-K	569 BTU-in/hr-ft ² -°F	

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