

CoorsTek ACI-Co10 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-Co10-Tungsten-Carbide.php

Physical Properties	Metric	English	Comments
Density	14.5 g/cc	0.524 lb/in ³	
Particle Size	<= 3.0 µm	<= 3.0 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	92	92	
Modulus of Elasticity	593 GPa	86000 ksi	
Flexural Strength	2340 MPa	339000 psi	
Poissons Ratio	0.22	0.22	
Shear Modulus	243 GPa	35200 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.50 µm/m-°C	3.06 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	0.2135 J/g-°C	0.05103 BTU/lb-°F	
Thermal Conductivity	85.0 W/m-K	590 BTU-in/hr-ft ² -°F	

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