

Sinotek Materials Tungsten Disulfide (WS2) Powder, High-Purity

Category : Ceramic , Sulfide/Chalcogenide , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

Tungsten Disulfide powder mainly has applications in spraying, coating, carbon material, all sorts of grease, lubricating oil, friction materials and catalysts. Tungsten Disulfide has good resistance to corrosion, however cannot avoid corroding base materials completely. This product is chemically inert, non-magnetic, and is available in blue and grey. This product is processed to meet military specification DOD-L-85645. Information provided by Sinotek

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sinotek-Materials-Tungsten-Disulfide-WS2-Powder-High-Purity.php

Physical Properties	Metric	English	Comments
Density	7.40 g/cc	0.267 lb/in ³	
Thickness	0.0127 microns	0.000500 mil	0.000020 in

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	30	30	
Coefficient of Friction, Dynamic	0.030	0.030	WS2 on WS2
Coefficient of Friction, Static	0.070	0.070	WS2 on WS2

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	650 Â°C	1200 Â°F	Normal atmosphere
	1316 Â°C	2401 Â°F	At 10-14 Torr
Minimum Service Temperature, Air	-273 Â°C	-459 Â°F	Normal atmosphere
	-188 Â°C	-306 Â°F	At 10-14 Torr

Component Elements Properties	Metric	English	Comments
Sulfur, S	25.82 - 26.5 %	25.82 - 26.5 %	
Tungsten, W	73.5 - 74.3 %	73.5 - 74.3 %	

Descriptive Properties	Value	Comments
Load Capacity psi	100000	
Purity WS2 wt%	99-99.9	

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