

Momentive Performance Materials Niobium Carbide (NbC) Coating

Category: Ceramic, Carbide, Other Engineering Material, Ceramic/Metallic Coating

Material Notes:

High temperature protective coating for graphite. TaC, NbC, and ZrC coatings resist chemical attack by corrosive liquids and gases at very high temperatures. They are finding increasing acceptance in the sealing and protecting of graphite hardware from hot ammonia, hydrogen, hydrochloric acid, and molten metals used in compound semiconductor epitaxial processes such as MOCVD and LPE. These carbide coatings are uniform, impermeable, electrically conductive, and extremely wear resistant thus providing long life and low particle generation. Information provided by Momentive Performance Materials, formerly GE Advanced Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-Niobium-Carbide-NbC-Coating.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	350 - 400 GPa	50800 - 58000 ksi	Young's modulus
Compressive Strength	2350 MPa	341000 psi	

Thermal Properties	Metric	English	Comments
	7.00 Âμm/m-°C	3.89 µin/in-°F	
CTE, linear	@Temperature 20.0 °C		
Thermal Conductivity	13.0 W/m-K	90.2 BTU-in/hr-ft²- °F	
Melting Point	3760 °C	6800 °F	
Maximum Service Temperature, Air	800 °C	1470 °F	oxidation limit

Optical Properties	Metric	English	Comments
Emissivity (0-1)	0.60	0.60	normal spectrum

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000300 ohm-cm	0.0000300 ohm-cm	

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