

Zircar Refractory Composites RS-BN Coat BORON NITRIDE COATING

Category : Ceramic , Nitride

Material Notes:

ZRCI Boron Nitride Coating Type RS-BNCoat is a high temperature, anti-stick release agent/lubricant for glass forming, hot pressing, super-plastic forming of alloys and melting/casting of non-ferrous metals. Type RS-BNCoat forms a non-wetting, non-reacting layer with molten aluminum and magnesium and their dross. It is ideal for forming a barrier layer to protect metal, ceramic, or graphite substrates used for metal transport or casting operations. Type RS-BNCoat's high electrical resistance and high thermal conductivity makes it useful as a protective coating on electrical heating elements. It is available in a paint or as an aerosol. The aerosol allows easy application of uniform, thin layers, and the acetone/alcohol based carrier assures fast drying. Type RS-BNCoat is useful to temperatures to 1816°C (3300°F) in inert and reducing atmospheres. In vacuum atmospheres, RS-BNCoat can be used to 1400°C (2552°F) before sublimation, and in oxidizing atmospheres, its use temperature is 1093°C (2000°F). Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-BN-Coat-BORON-NITRIDE-COATING.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	
pH	2.0 - 4.0	2.0 - 4.0	Coating pH
Brookfield Viscosity	1050 cP	1050 cP	3/60

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1100 °C	2010 °F	
Maximum Service Temperature, Inert	1400 °C	2550 °F	Vacuum
	1800 °C	3270 °F	

Component Elements Properties	Metric	English	Comments
BN	85 %	85 %	

Processing Properties	Metric	English	Comments
Shelf Life	>= 12.0 Month	>= 12.0 Month	

Descriptive Properties	Value	Comments
Color	White	
Type of Binder	Al2O3	

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