

Momentive Performance Materials HPC Boron Nitride (BN)/TiO2 Water Based Coating

Category : Ceramic , Nitride , Oxide , Titanium Oxide , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

Solids content > 25%. Can be applied by brush, roller, dipping, or spraying. Can be applied to either hot or cold services although use of water based coatings on surfaces greater than 100°C is not recommended. Multiple coats may be necessary. Dried coatings can be readily handled, smoothed, or polished with a soft, dry cloth. Uses of GE Advanced Ceramics boron nitride water based coatings and aerosol spray: Release Agents, Lubricants and Protective Coatings Boron Nitride (BN) remains lubricious and inert even at extremely high temperatures. Coatings made with BN prevent sticking to increase the life of dies/molds, improve product surface finishes, and reduce production times. Metalforming In molten metal and metalforming applications, BN coatings protect surfaces which come in contact with hot and molten metals. BN inhibits corrosion and chemical attack and provides easier release and longer mold/die life. Applications include: casting, stamping, forging and powder metallurgy. Glass Making BN's high temperature lubricating properties make it ideal in glass making where it helps minimize surface defects, improve mold/die life and release, and reduce clean-up time. Most glass formulations will not stick to BN. Plastics/Rubber Producers of injection-molded plastics and elastomers benefit from BN die applications by improved die release and increased production speeds. Sintering Sintering of metallic and ceramic powders is typically done on graphite plates. A coating of BN can essentially eliminate carbon contamination, reactivity and sticking which can occur at sintering temperatures. Welding and Brazing BN coatings are also ideal for welding and furnace brazing. They protect surfaces from weld spatter and provide superior stop-off protection. BN coatings also protect MIG/MAG welding nozzles from weld spatter. 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-HPC-Boron-Nitride-BNTiO2-Water-Based-Coating.php

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	850 °C	1560 °F	Oxidizing Environments
Maximum Service Temperature, Inert	2000 - 3000 °C	3630 - 5430 °F	Inert/Vacuum Use (BN Component)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	BN Component

Descriptive Properties	Value	Comments
Color	White	

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