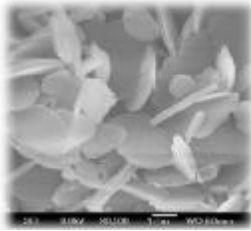




BN Thermal Coating Products

Advantages

TSD BN thermal coating forms a unique layer of highly thermal conductive boron nitrides on object surfaces. The object can be any materials such as cooper, aluminum, plastic, and composite materials.

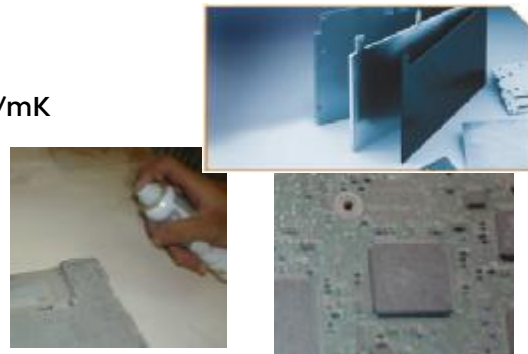


Applying the TSD BN thermal coating is most affective to extra heat from the heat source. The heat is quickly directed away and cooled by temperature differences and radiation.

In addition, the BN thermal coating surface will form "white graphite" like protection layer again oxidation. The increase surface area extended by the hBN will effective allows more air-surface contact and heat radiation cooling.

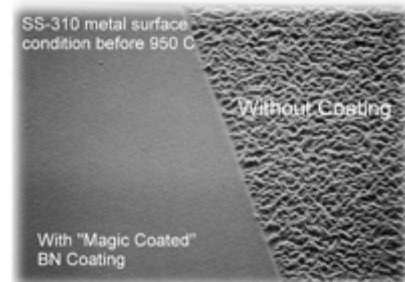
Features and Benefits

- High thermal conductivity of 100~250 W/mK
- Low thermal resistance
- Low dielectric constant and loss tangent
- Excellent radiated heat transfer
- Low dielectric constant
- Easy to use



Non-wetting surface protection layer coat

The TSD BN thermal coating provides excellent surface protection capabilities. The illustration on the right shows the stainless steel-310 is heated to 950°C and cooled down in few cycles. Clearly the alloy surface maintained its alloy characteristic.



Thermal Conductivity

Hexagonal boron nitride offers excellent thermal transfer and thermal radiation with superb thermal stability over wide temperature ranges.

Material	Thermal Conductivity (W/Mk)
Cooper	385
hbn	300+
30% AISi	200
Aluminum	150
Brass	109
Tin	92
Lead	34.7

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Product Information

	Blue Version	Red Version	Gold Version
Ingredient	hBN	hBN	hBN
Binder	Inorganic liquid binder	Quick dry solvent	Inorganic
Working Temp.	< 1800°C	< 200°C	< 1200°C
Apply Method	Maintain object temp. 75~150°C	Apply directly	Required baking 500°C

Material	Blue Version	Red Version	Gold Version
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminum	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brass / Cooper		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Plastic		<input checked="" type="checkbox"/>	
Composite		<input checked="" type="checkbox"/>	

Applications	Blue Version	Red Version	Gold Version
Piston	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Power LED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Thermal components		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Thermal Modules	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Al. Coolers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Brass Coolers		<input checked="" type="checkbox"/>	
Engine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Motorbike Gears	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Exhaust Components	<input checked="" type="checkbox"/>		
Brake Components	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Transmission Housing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Furnace	<input checked="" type="checkbox"/>		
Thermal Pipe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Electronic Components		<input checked="" type="checkbox"/>	
Brass Heat Sinks		<input checked="" type="checkbox"/>	
Aluminum Heat Sinks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Characterists	Blue Version	Red Version	Gold Version
Thermal Capacity	★★★★★	★★★★★	★★★★★
DIY Simplicity	★★★★★	★★★★★	★
Working Life Period	★★★★★	★★★★★	★★★★★
Scratch Resistance	★★★	★★★★★	★★★★★
Friction Resistance	★★★★★	★★★	★★★★★
Adhesiveness Strength	★★★	★★★★★	★★★★★
Corrosion Resistance	★★★★★	★★★★★	★★★★★
Acid, Alkali Resistance	★★★	★★★	★★★★★
Carbon Buildup Res.	★★★★★	★★	★★★★★
Water Repellent Res.	★★	★★★★★	★★★★★

Pricing / Packaging:

Custom packings are available in aerosol can or in liquid container. Please consult us for more detail.