

DIFFUSION FOIL™ DF-400 / DF-200

Feature

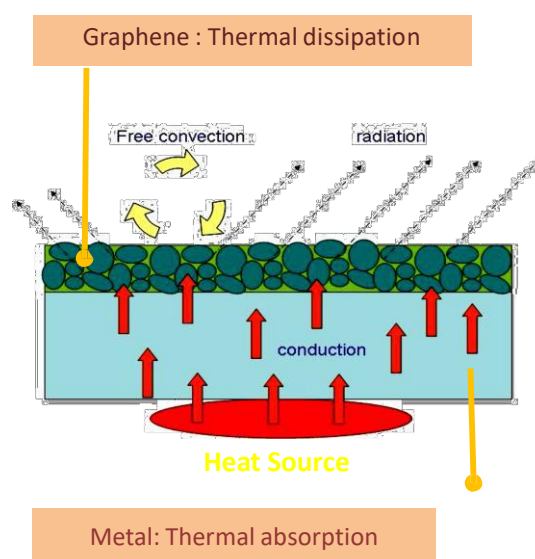
SP-3000 is a kind of cream-like coating. It contains high thermal dissipation nano-ceramic pellets. The standard color is black. The standard is concentrated and need to be diluted with solvent when processing.

Advantage and Characteristics

- Contains high thermal diffusion, convection, and radiation ceramic pellets.
- Can stick firmly onto the components
- Water-proof and able to endure high temperature

The excellent ability of thermal conduction of metal spreads the heat and takes it to the ceramic layer. The ceramic pellets on the surface of the material can increase the surface area and thus enhancing thermal convection and thermal radiation.

Application



Test Result

Apparatus : ● Power Supply GPC-3030DQ

● Thermometer TM-947SD

● Test mold 15x12 mm

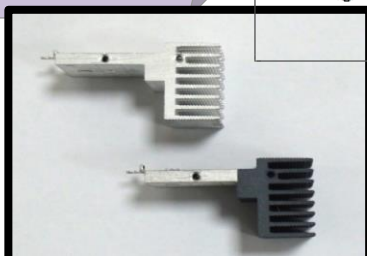
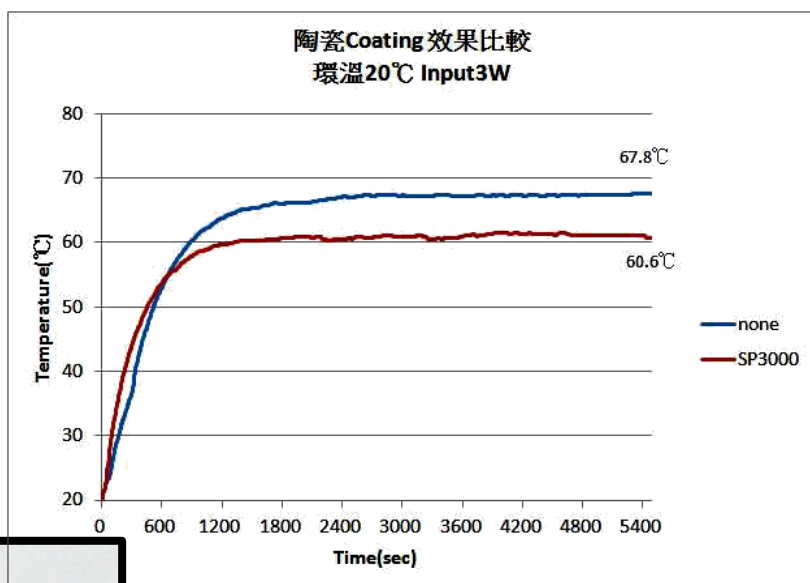
Temperature : 20°C (±0.5°C)

Test Area : Heat sink(none)- 30x30x40mm

Heat sink(Coating)- 30x30x40mm

Input Power : 3W

Times : >3900 (sec.)



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Specification

Properties of SP-3000 Series				
Property	SiC type	AlN type	Unit	Test Method
Original Color	green/black	white/black	-	Visual
Available Color	Multicolored(Dark)	Multicolored(Light)	-	Visual
Specific Gravity	2.5		g/cc	ASTM D1475
Viscosity	25~28		Cps	ASTM D1200
Solid content	70		%	ASTM D2369
Hardness	≥3H		-	ASTM D3363
Cross-Cut Test	≤3		%	ASTM D3359
Salt spray test	No chap or peel off		-	ASTM B117
Emissivity	>0.9-		-	-
Voltage Breakdown	-	1.5	kVa-c	ASTMD149
Ceramic Thermal Conductivity	150	170	W/m-k	ASTMD5470
Ceramic Composite Thermal Conductivity	100	120	W/m-k	ASTMD5470
Operating Temperature	-20~150		°C-	-
ROHS Compliant	Pass			SGS
Specification	2.5kg/Jar			

