

# JET-HOT EXTREME 2500

THERMAL BARRIER CERAMIC COATING

## OVERVIEW

A blend of full ceramic oxides that provide an insulative barrier from the conductive transfer of heat. The coating also provides excellent corrosion protection from both salt spray and chemical attack due to the inert materials that are fused together creating the coating film.

The corrosion protection provides the ability for a blanket or wrap to be used in conjunction with this coating without the negative effects of corrosion by entrapped moisture between the wrap and the metal substrate.

Typically used in applications where ceramic-metallic hybrid coatings will not operate. Applications with temperatures above 1250°F benefit from this coating to reduce the external skin temperature. However even lower temperature applications can benefit from the low thermal conductivity of this coating.



## SPECIFICATIONS

Volatile Organic Content	None
Dry Film Thickness	6.0 - 13.0 mils (0.006" - 0.013")
Service Temperature	2500°F (1371°C)
Corrosion Resistance (ASTM B117-95)	>10,000 hrs
Thermal Shock (ASTM C1525)	100°F to 70°F No change in coating properties
Thermal Conductivity (ASTM D5470)	0.07 - 0.12 W/m*K
Applicable Substrates	(Line of sight application only) Ceramic, stainless steel, cold rolled steel, low carbon steel, titanium, Inconel®, high nickel alloys, aluminum.