

General Description:

Hardness for Chromium Carbide Spray & Fused is derived from complex carbides, which form with Chromium, tungsten, Iron and Boron. It differs from HVOF Chromium Carbide in that carbides of many metals are formed during the fusion process rather than pre-existing in the spray metal. The metallurgical bond makes this coating suitable for extremely high temperature service and extremely high thermal shock applications. This coating has displayed excellent wear resistance in elevated temperature cyclic service. The minimal porosity in this coating is closed, providing complete corrosion protection of the base metal.

Application Method:

Spray and Fuse

Typical Chemistry:

Boron	3%
Carbon	1%
Chromium	19%
Cobalt	Balance
Nickel	18%
Silicon	3%
Iron	1%
Tungsten	10%



Typical Mechanical Properties:

Hardness	> 56 HRC average
Finished Thickness	0.009" to 0.023"
Porosity	2% maximum
Useful Temperature	up to 1400°F (760°C)
Bond Strength	> 40,000 psi

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