

General Description:

This Chromium Carbide HVOF is the "work horse" coating of MOGAS and is used as standard for severe service unless conditions dictate otherwise. Hardness is derived from the Chromium Carbide particles contained in the Nickel-Chromium binder. Hardness is generally maintained at elevated temperature. Porosity is typically ½ %, which serves to provide some corrosion protection for the base metal. However, long-term corrosion resistance requires a corrosion resistant base metal be selected. The mechanical bond of this coating is suitable for extremely high temperature, but not for high thermal shock applications or high cycle operation at temperatures above 1100° F.

Application Method:

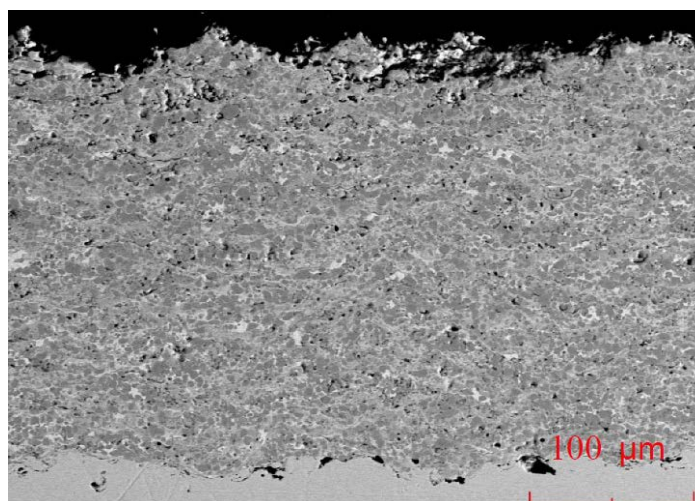
High Velocity, Oxygen Fueled

Typical Chemistry:

Carbon	10%
Chromium	Balance
Nickel	20%

Typical Mechanical Properties:

Hardness	>700 HV average
Finished Thickness	0.003" to 0.008"
Porosity	2% maximum
Useful Temperature	> 1450°F (788°C)
Bond Strength	> 10,000 psi



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