

THERMAL SPRAY FLEXICORD

Technical Bulletin



CHROMKARB

Carbide series – ref : 98215 0247 000

CHROMKARB Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. CHROMKARB Flexicord provides abrasion, erosion, cavitation and fretting resistance. Good hot gas corrosion and oxidation resistance, particularly in sulfurous gases. Good properties for sliding wear. Can be used at service temperature up to 850°C (1562°F).

Applications

Applications: fuel rod mandrels and hot forming dies, hydraulic valves, tooling, machine parts, pump housing, wear and corrosion resistance for boiler tubes, WTE incinerator. Excellent against fretting and wear at high temperature (gas turbine, vibrating parts...).

Typical composition (%) - T^{TIP}

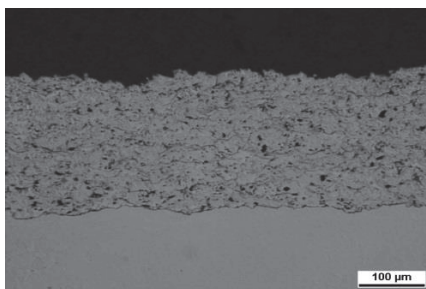
Cr ₃ C ₂	75
NiCr	25

Color code

Skin	Red
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Packaging

Ø Flexicord	4,75 mm +/- 0,1mm
Spool	Plastic - SD 300mm
Weight	8 Kg +/- 10%

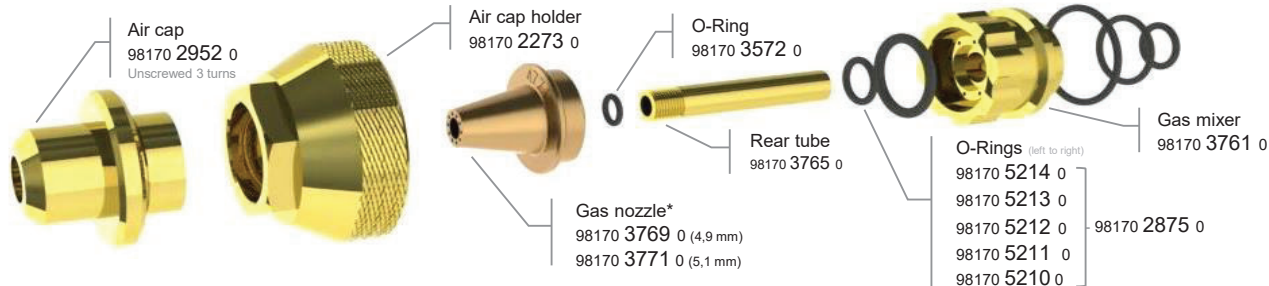


Typical microstructure of ChromKarb sprayed with our Master Jet® flame spray gun.

Coating features

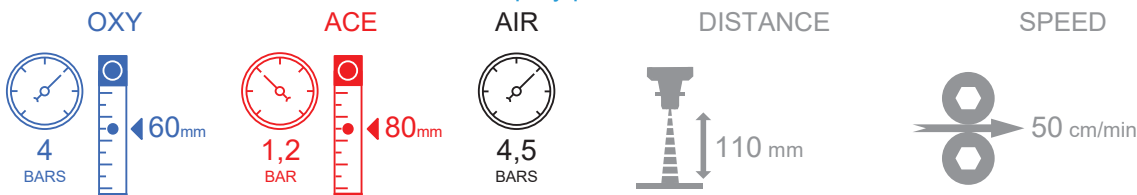
Porosity	2 – 4%
Pore diameter	5 - 10 µm
Roughness Ra (as sprayed)	5,5 – 6 µm
Hardness	900 Hv ₃₀₀
Density	7,1 g/cm ³
Deposit Efficiency	67%

Gun configuration



*Use 4,9 mm in dry area – 5,1 mm in wet area

Spray parameters



Production performances

