

THERMAL SPRAY FLEXICORD

Technical Bulletin

IRON OXIDE

Ceramic series – ref : 98212 9047 000

IRON OXIDE Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. IRON OXIDE provides dark grey smooth coating, good wear resistance, good resistance to impact and scratches, compatible with steel thermal expansion, making it suitable for further forging operation.

Applications

Internal steel forging dies, Infra-Red (IR) absorbent surfaces, good sliding properties. Sacrificial coating in steel forming.

Typical composition (%) - TTIP

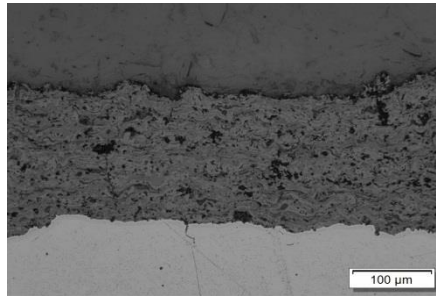
Fe ₃ O ₄	92
SiO ₂	3
Other	5

Color code

Skin	Black
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Packaging

Ø Flexicord	4,75 mm +/- 0,1mm
Spool	Plastic - SD 300mm
Weight	6,7 Kg +/- 10%

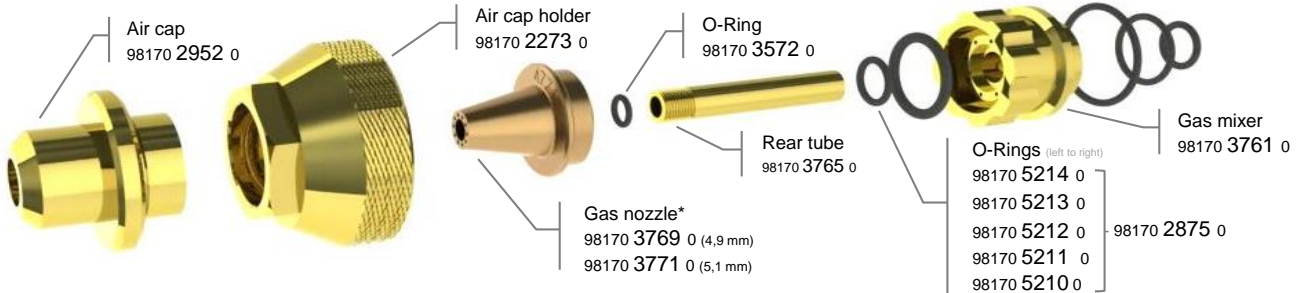


Typical microstructure of Iron Oxide sprayed with our Master Jet® flame spray gun.

Coating features

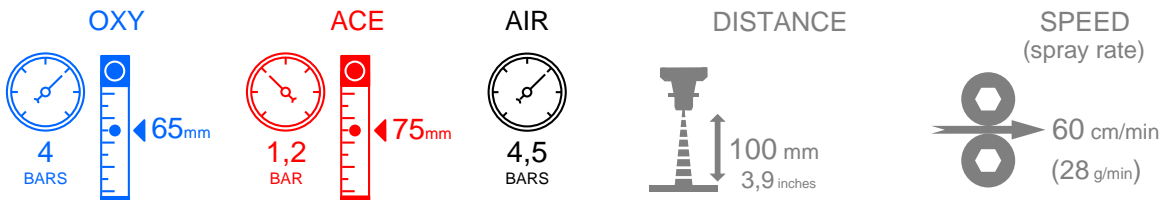
Porosity	~6,4%
Pore diameter	5 - 20 µm
Roughness Ra (as sprayed)	~12 µm
Typical Hardness	500 Hv ₃₀₀
Density	3,4 g/cm ³
Deposit Efficiency	36%

Gun configuration

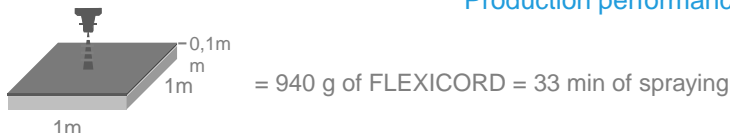


*Use 4,9 mm in dry area – 5,1 mm in wet area

Spray parameters



Production performances



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