

THERMAL SPRAY FLEXICORD

Technical Bulletin



ZIRMAG SUPRA

Ceramic Supra series – ref : 98211 6247 000

ZIRMAG SUPRA Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. ZIRMAG SUPRA is designed to provide thermal barrier properties and to reduce the wettability versus molten metals. It has a good resistance to thermal shocks and thermal cycles. Very stable up to high temperature (1400°C). Smoother surface & denser than MAGNESIUM ZIRCONATE.

Applications

Tools in contact with steel at high temperature, in various hot forming process (steel extrusion dies). Thermal barrier on exhaust manifold, etc...

Typical composition (%) - T^{TIP}

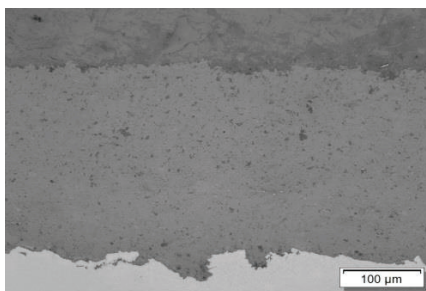
ZrO ₂	78
MgO	22

Color code

Skin	Pink
------	------

Packaging

Ø Flexicord	4,75 mm +/- 0,1mm
Spool	Plastic - SD 300mm
Weight	5,9 Kg +/- 10%

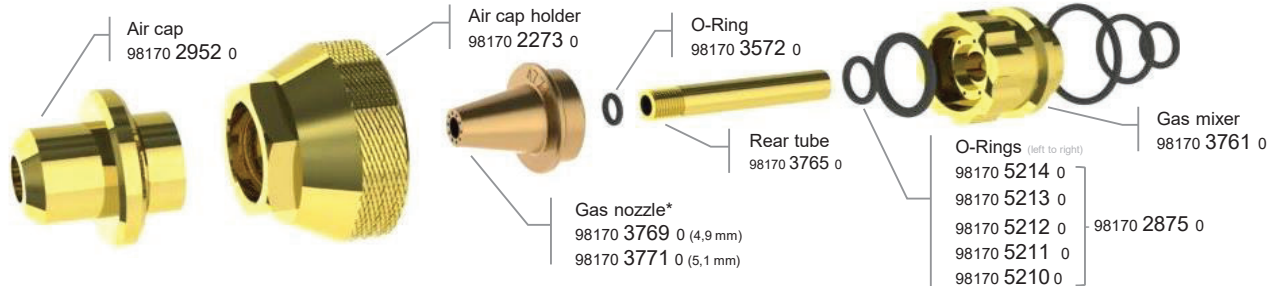


Typical microstructure of Zirmag Supra sprayed with our Master Jet® flame spray gun.

Coating features

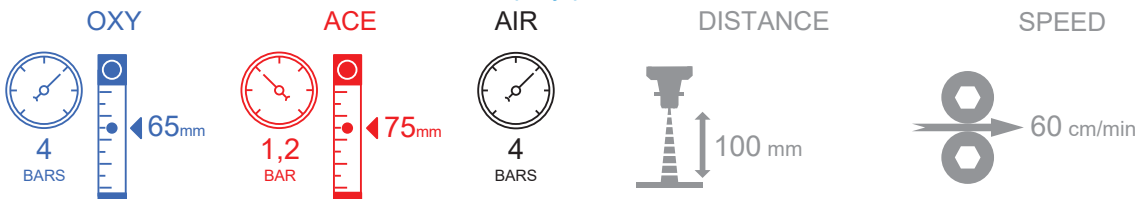
Porosity	4 - 6%
Pore diameter	1 - 10 µm
Roughness Ra (as sprayed)	3,5 - 4 µm
Hardness	650 Hv ₃₀₀
Density	4,7 g/cm ³
Deposit Efficiency	39%

Gun configuration



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

Spray parameters



Master Cleaner required (ref.: 98110 3000 000)

Production performances

