

THERMAL SPRAY FLEXICORD

Technical Bulletin

AZ 220

Ceramic series – ref : 98210 8047 000

AZ 220 Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. AZ220 is a good compromise for medium wear resistance application under thermal cycle. The wide and uniform spray pattern makes it the ideal choice for coating manually very large surfaces. Its medium hardness makes AZ a "ductile" ceramic coating. AZ matches application up-to 750°C on refractory steels. Good resistance to thermal shocks and thermal cycles. Good corrosion resistance against acids.

Applications

All applications requiring wear resistance and high toughness up to 750°C. Can be used as a bond-coat buffer layer for supra Flexicord coatings. Application up-to 750°C on refractory steels.

Typical composition (%) - T^{TIP}

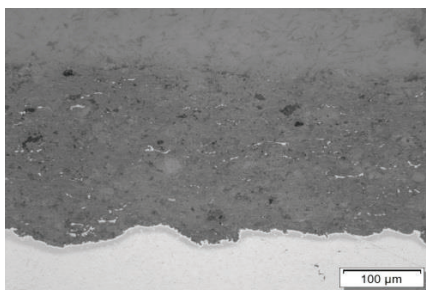
Al ₂ O ₃	75
ZrO ₂	23
Other	2

Color code

Skin	Pink
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Packaging

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

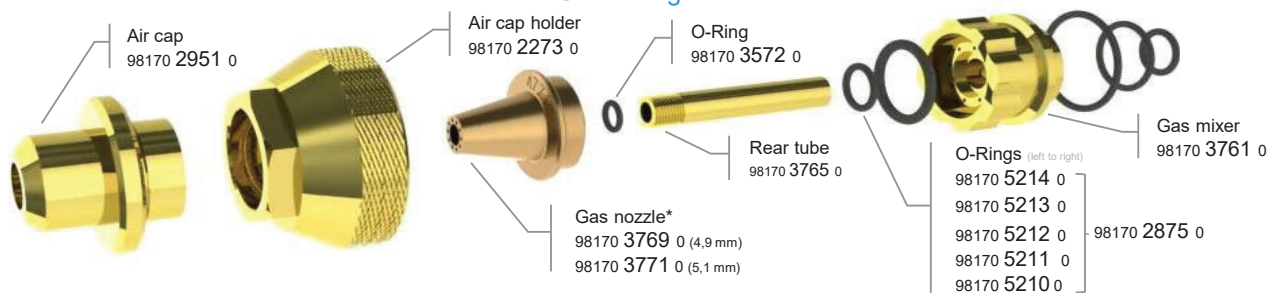


Typical microstructure of AZ 220 sprayed with our Master Jet® flame spray gun.

Coating features

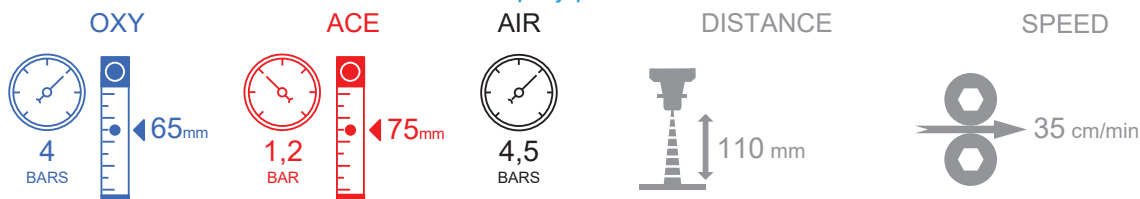
Porosity	6 – 8 %
Pore diameter	5 - 20 µm
Roughness Ra (as sprayed)	7 - 12 µm
Hardness	500 - 600 Hv ₃₀₀
Density	3,5 g/cm ³
Deposit Efficiency	40 – 50 %
C.T.E.	7,5.10 ⁻⁶ K ⁻¹

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

