

THERMAL SPRAY FLEXICORD

Technical Bulletin

TITANIA

Ceramic series – ref : 98212 1047 000

TITANIA Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. TITANIA Flexicord provides: black color, dense, smooth and wear resistant coatings. Not subject to static electricity build-up.

Applications

Slightly conductive coating. Suitable for anti-static coating, IR absorption (up to 400°C) and diffusion surface (heater, furnaces, components). High thickness rebuilding solution for Alumina-Titania ceramic coating.

Typical composition (%) - T^{TIP}

TiO ₂	100
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Color code

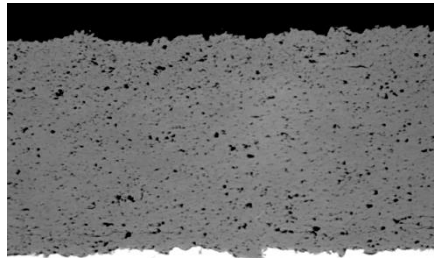
Skin	Red
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Packaging

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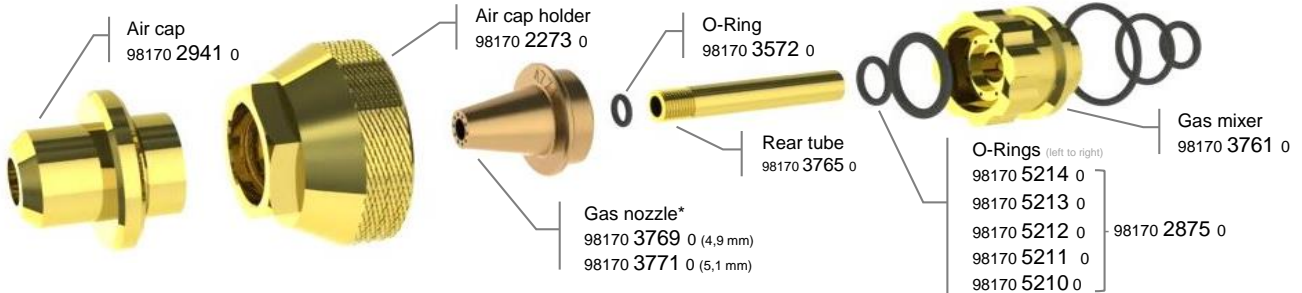


Typical microstructure of Titania sprayed with our Master Jet® flame spray gun.

Coating features

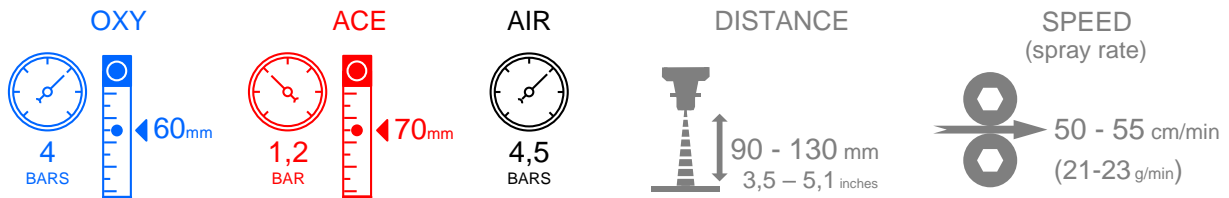
Porosity	3%
Pore diameter	~5 µm
Roughness Ra (as sprayed)	4,5 - 8 µm
Typical Hardness	750 - 900 Hv ₃₀₀
Density	4,1 g/cm ³
Deposit Efficiency	60%

Gun configuration

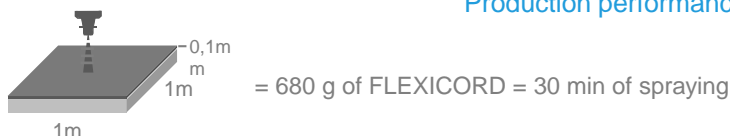


*Use 4,9 mm in dry area – 5,1 mm in wet area

Spray parameters



Production performances



SAINT-GOBAIN COATING SOLUTIONS

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