

THERMAL SPRAY FLEXICORD

Technical Bulletin

BLACK CORUNDUM 50

Ceramic series – ref : 98210 4347 000

BLACK CORUNDUM 50 Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. BLACK CORUNDUM 50 Flexicord provides: Black color coating Having a medium wear and oxidation resistance, able to achieve a thickness over 1mm. Good absorption and diffusion of Infra Red rays (IR) up to 400°C. Easier to machine vs. Black Corundum 15.

Applications

High temperature applications. Slightly conductive coating. IR absorption and diffusion surface (heater, furnaces, components. High thickness rebuilding solution for Alumina-Titania ceramic coating.

Typical composition (%) - T^{TIP}

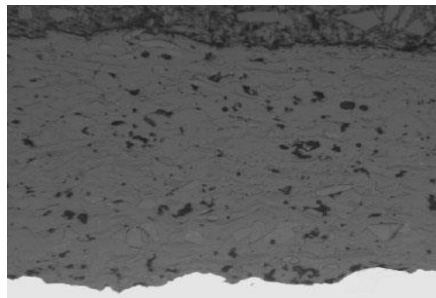
Al ₂ O ₃	50
TiO ₂	50

Color code

Skin	Red
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Packaging

Ø Flexicord	4,75 mm +/- 0,1mm
Spool	Plastic - SD 300mm
Weight	3,55 Kg +/- 10%

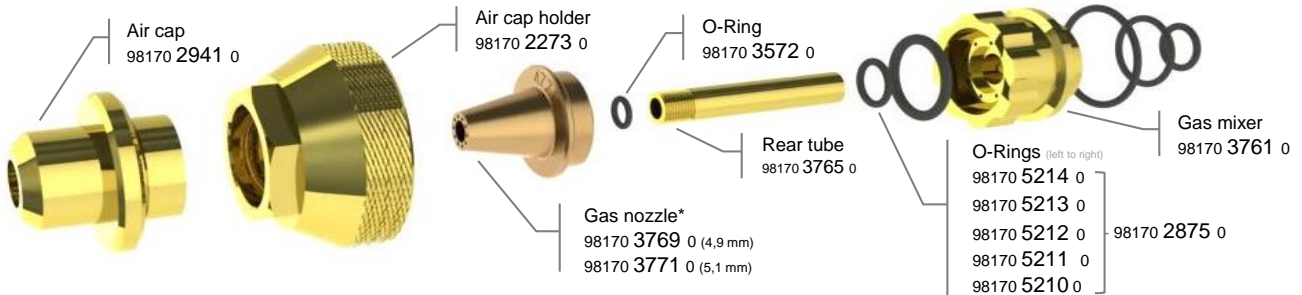


Typical microstructure of Black Corundum 50 sprayed with our Master Jet® flame spray gun.

Coating features

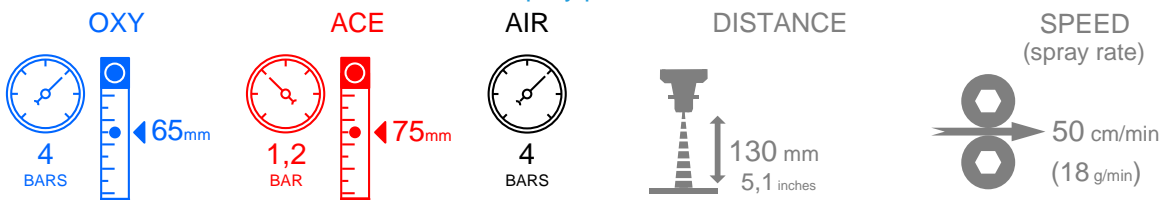
Porosity	6 - 8%
Pore diameter	~10 - 20 µm
Roughness Ra (as sprayed)	7 - 9 µm
Typical Hardness	600 Hv ₃₀₀
Density	3,7 g/cm ³
Deposit Efficiency	52%

Gun configuration

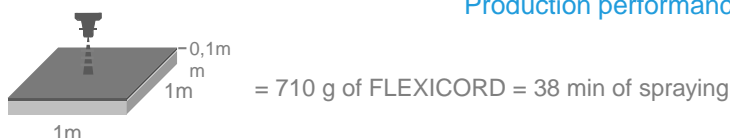


*Use 4,9 mm in dry area – 5,1 mm in wet area

Spray parameters



Production performances



SAINT-GOBAIN COATING SOLUTIONS

coatingsolutions@saint-gobain.com | www.coatingsolutions.saint-gobain.com

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