

# THERMAL SPRAY FLEXICORD

## Technical Bulletin

# SPINEL

Ceramic series – ref : 98210 7047 000

SPINEL Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. SPINEL has a low wettability versus Al & Zn. SPINEL has a very good stability up to high temperature (1400°C) and provides a good electrical insulation, good corrosion resistance versus most of acids & alkalis, medium abrasion resistance.

### Applications

Very high temperature applications up to 1400°C. Electrically insulating coating. Good corrosion resistance. Suitable for contact with molten metals (Al, Zn). Coating on crucibles, chutes, fusion pots, molds, funnels, spoons. Feed rollers for galvanized wires manufacturing. Steel converter chimney and cover. Protective coating of high section of electric furnaces.

### Typical composition (%) - GTIP

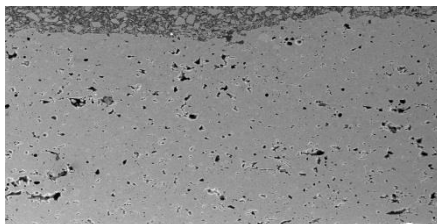
Al <sub>2</sub> O <sub>3</sub>	70
MgO	30

### Color code

Skin	Pink
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### Packaging

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



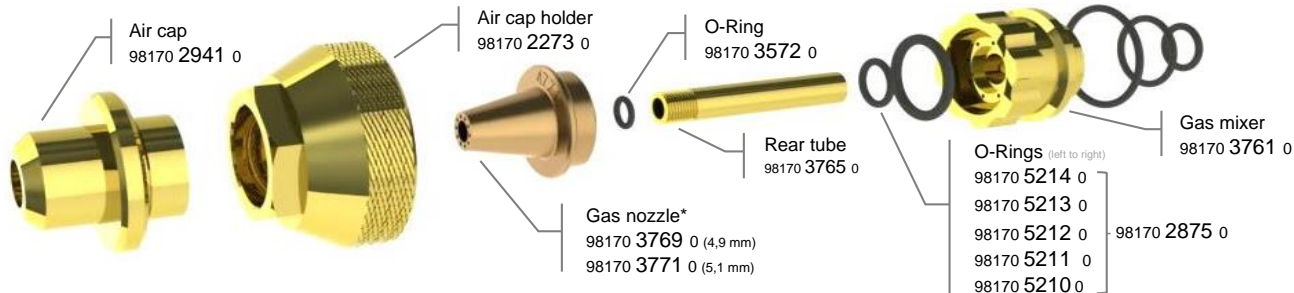
2012/01/27 L x120 500 um

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

### Coating features

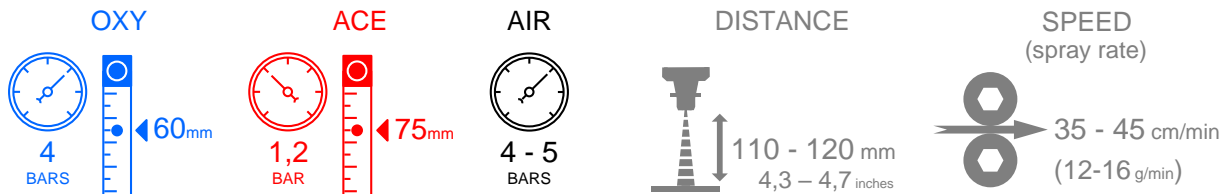
Porosity	~20%
Pore diameter	10 - 50 µm
Roughness Ra (as sprayed)	7 - 12 µm
Typical Hardness	730 Hv <sub>300</sub>
Density	3,2 g/cm <sup>3</sup>
Deposit Efficiency	65%
Thermal conductivity	5 - 10 W.m <sup>-1</sup> K <sup>-1</sup>

### Gun configuration



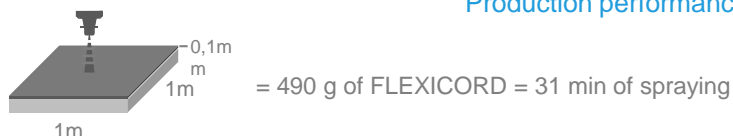
\*Use 4,9 mm in dry area – 5,1 mm in wet area

### Spray parameters



Master Cleaner required (ref.: 98110 3000 000)

### Production performances



## SAINT-GOBAIN COATING SOLUTIONS

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