

# THERMAL SPRAY FLEXICORD

Technical Bulletin



## NICRALY

Bond Coat series – ref : 98216 0347 000

NICRALY Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. NICRALY is a bond coat material used to improve the bond strength of the top coat such as ceramic coatings. Resistant to highly corrosive and high temperature environment.

### Applications

Bond coat suitable for all ceramic coatings such as thermal barriers on steel, stainless steel, cast iron, aluminum, superalloys. Metal casting, boiler... Can also be used as mono layer for corrosion protection at high temperature.

### Typical composition (%) - T<sup>TIP</sup>

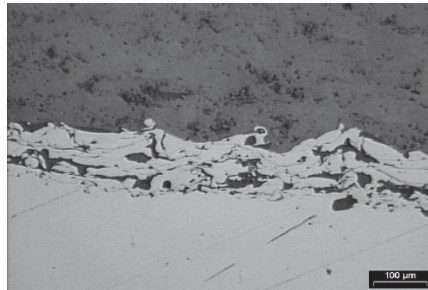
Ni	67
Cr	22
Al	10
Y	1

### Color code

Skin	Red
------	-----

### Packaging

Ø Flexicord	4,75 mm +/- 0,1mm
Spool	Plastic - SD 300mm
Weight	7,8 Kg +/- 10%

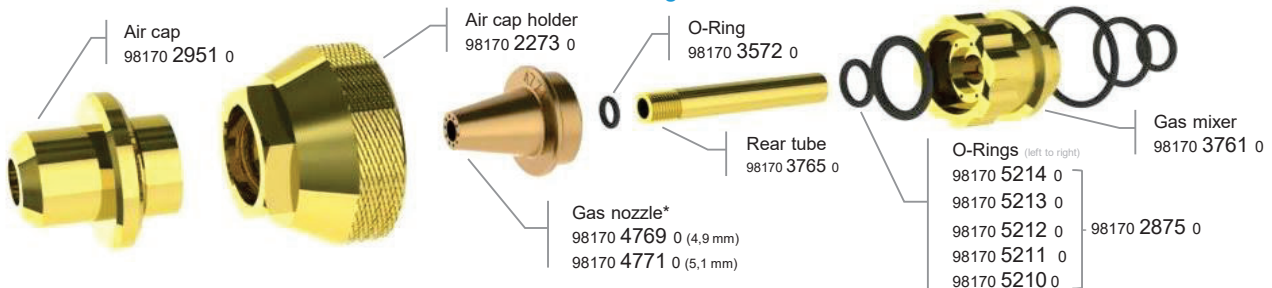


Typical microstructure of NiCrAlY sprayed with our Master Jet® flame spray gun.

### Coating features

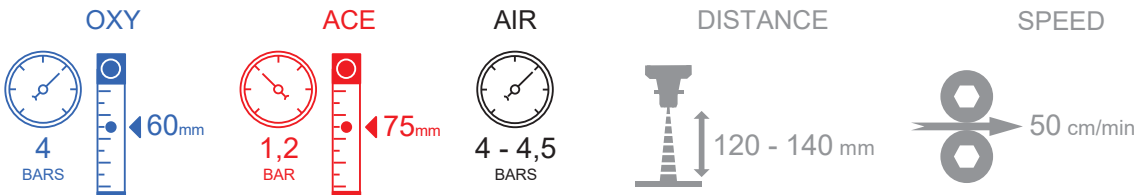
Porosity	5%
Oxidation	20%
Roughness Ra (as sprayed)	10 - 12 µm
Hardness	250 – 320 Hv <sub>300</sub>
Density	7,5 g/cm <sup>3</sup>
Deposit Efficiency	62%
Melting point	1400°C (2552°F)

### Gun configuration



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

### Spray parameters



### Production performances

