

# THERMAL SPRAY FLEXICORD

Technical Bulletin



## COREC 6

Special Alloys series – ref : 98217 6547 000

COREC 6 Flexicord is designed to be sprayed with our MASTER JET®

flame spray gun. COREC 6 is a non-magnetic and corrosion-resistant cobalt alloy achieving wear, fretting and oxidation resistant coatings. COREC 6 is suitable for friction and wear applications at moderate/high temperature (800°C).

### Applications

Protection against friction, fretting wear at moderate/high temperature. Also usable as a bond coat suitable for all ceramic coatings on steel, stainless steel, cast iron, superalloys...

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

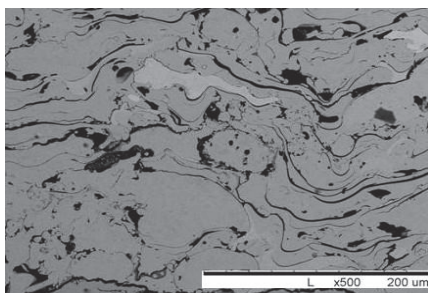
Co	67
Cr	29
W	4,5
C	1,15

### Color code

Skin	Red
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### Packaging

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



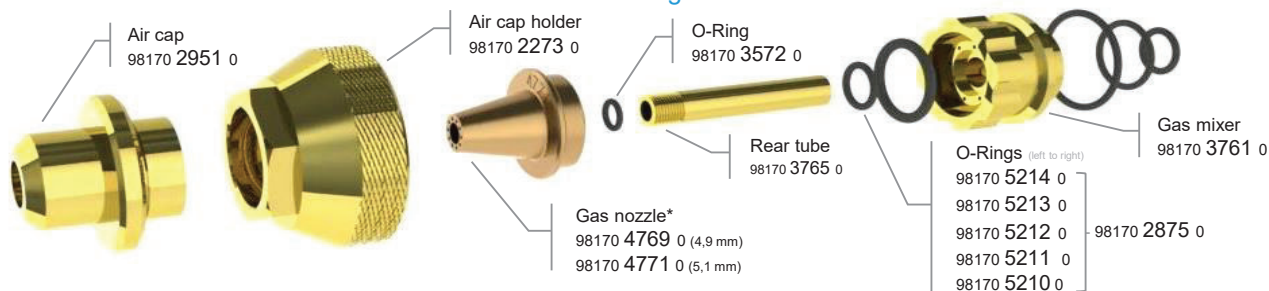
Typical microstructure of Corec 6 sprayed with our Master Jet® flame spray gun.

### 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)

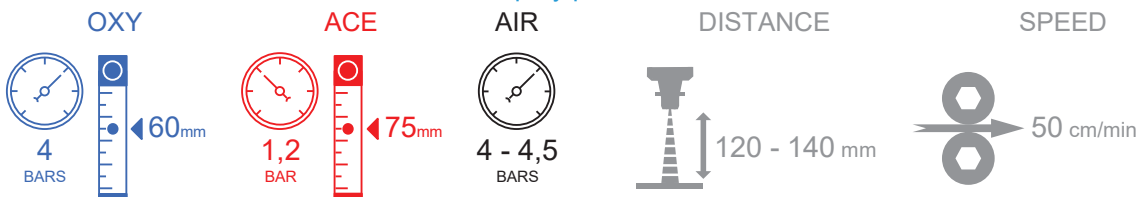
Similar composition to Stellite® 6\*

### Gun configuration

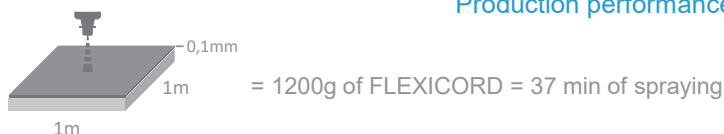


\*Use 4,9 mm in dry area – 5,1 mm in wet area

### Spray parameters



### Production performances



SAINT-GOBAIN COATING SOLUTIONS



\* Stellite® is a registered Trademark from Deloro Stellite, part of Kennametal