

THERMAL SPRAY FLEXICORD

Technical Bulletin

BLACKSORB

Ceramic series – ref : 98210 4647 000

BLACKSORB Flexicord is designed to be sprayed with our MASTER JET® flame spray gun. BLACKSORB Flexicord provides: Black color, High surface roughness which promotes absorptivity, high solar absorptivity which promotes heat absorption, absorptivity stable on 25 – 900°C and low shrinkage (0,75% between 25 – 900°C).

Applications

BlackSorb ceramic coating for solar absorbers, coating can be easily applied on site.

Typical composition (%) - GTIP

| | |
|--------------------------------|-----|
| Cr ₂ O ₃ | 55% |
| Al ₂ O ₃ | 21% |
| SiO ₂ | 17% |
| TiO ₂ | 7% |

Color code

| | |
|------|-----|
| Skin | Red |
|------|-----|

Packaging

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

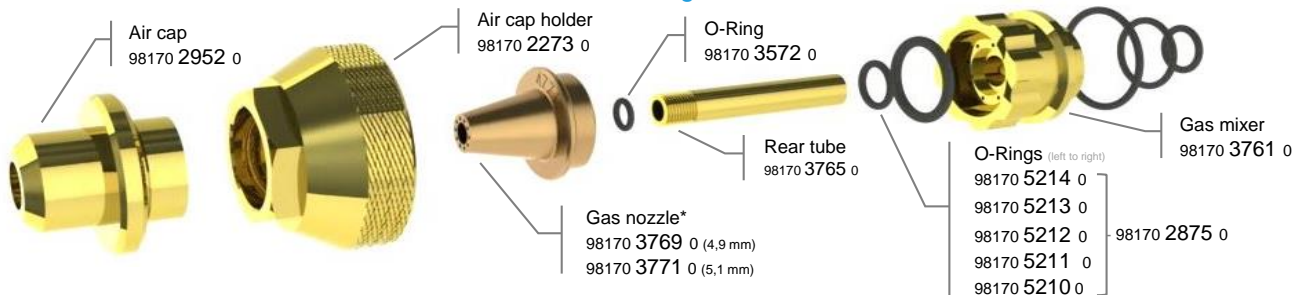


Typical surface of BlackSorb sprayed with our Master Jet® flame spray gun.

Coating features

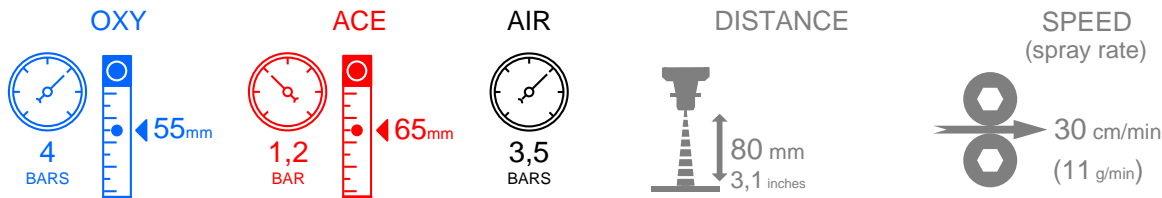
| | |
|---------------------------|-----------------------|
| Porosity | ~10% |
| Pore diameter | ~5 - 20 µm |
| Roughness Rz (as sprayed) | 56 µm |
| Density | 3,7 g/cm ³ |
| Deposit Efficiency | 60% |

Gun configuration

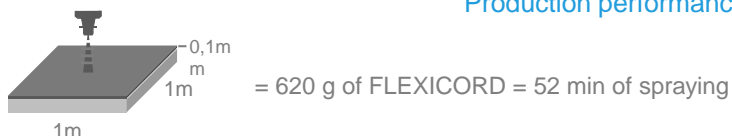


*Use 4,9 mm in dry area – 5,1 mm in wet area

Spray parameters



Production performances



SAINT-GOBAIN COATING SOLUTIONS

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

