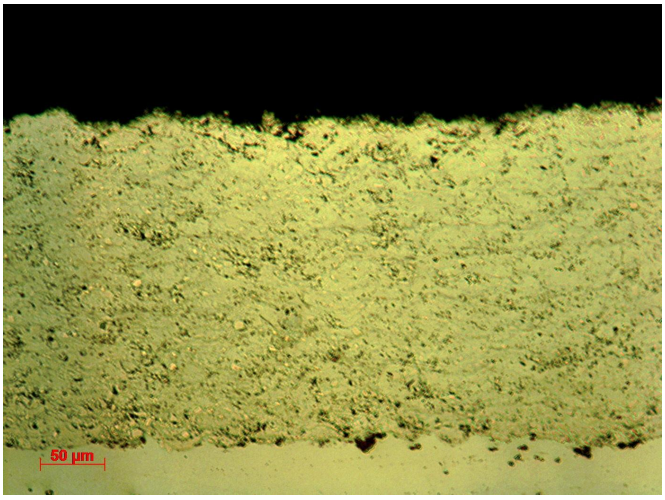
Product Specification

HVOF Coatings | CRCMax®

Characterization

Microstructure



Typical Proprieties

Bond Strength[1] (MPa)	> 70,9
Porosity[2] (%)	< 1
Microhardness[3] (HV 0.3)	978,2
Macrohardness[4] (HR15N)	90,2
Typical roughness after grinding, Ra (µm)	< 0,2
Typical Composition:	Cr3C2 (NiCr)

General Features

Excellent chemical composition that offers an excellent protection against wear and corrosion.
The coating protects the substrate against extreme conditions such as abrasion, fretting, erosion and tribological corrosion resistance at elevated termperatures up to 870°C.
Good performance in chloride, acidic and alkaline environments.
Alternative to Hard Chrome Plating.

Typical uses and applications

- Ball Valves;
- Hydraulic rods;
- Compressor rods;
- Components used in chemical processing;
- Components used in corrosive and wearing environments.

[1] Reference standards: ASTM C 633-79

[2] Reference standards: MIL STD 1687 A (SH)

[3] Reference standards: ASTM E384

[4] Reference standards: ASTM E18

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