CERAL 3450sc

Smooth Coating

For Service in North America, please contact:
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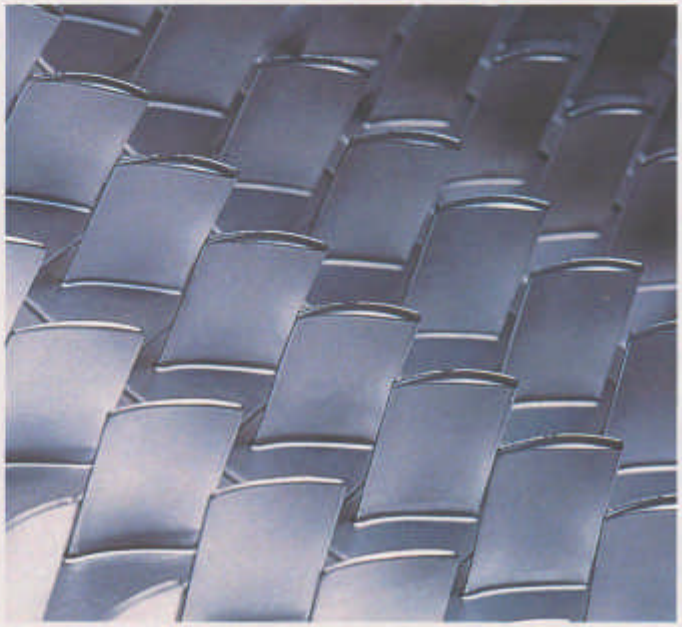
CERAL 3450sc Description

CERAL 3450sc is a coating system which consists of a dense packed aluminum-filled polyphosphate base coat CERAL 34 sealed with a chemically inert and chrome free top coat CERAL 50.
CERAL 3450sc is a coating with a very smooth surface finish. No media finish is required afterwards to achieve the final smoothness.
CERAL 3450sc is identical to the CERAL 114 systems in the chemical and physical properties and exhibits excellent corrosion and erosion resistance.



CERAL 3450sc Advantages

The main benefits of CERAL 3450sc are
- smooth surface finish
- thin & thick coatings possible
- cathodic protection by electrical conductivity
- excellent corrosion protection
- high erosion resistance
- no hydrogen embrittlement
- no additional final finish necessary

CERAL 3450sc Applications

CERAL 3450sc is the ideal coating for all gas path compressor components such as blades and vanes and diffusors of engine aircraft and industrial gas turbines.
Less fuel consumption will be associated with improved efficiency of the gas turbine.

Physical Properties

Thickness range	0.0004 inch – required (10 µm – required)
Roughness	Ra 10–20 µinch (0.2–0.5 µm) (0.03 inch cut-off)
Operating temperature	1110 °F (600 °C)

Performance Data

Salt Spray ASTM B117	>2000 hours
Salt Spray for 16 hours + + 840 °F (450 °C) for 6 hours	>10 cycles
Erosion ASTM D698	56 Ltrs/0.001 inch
Temperature stability	1110 °F (600 °C)
Oxidation resistance	1300 °F (700 °C)
Thermal shock MIL-817513	passed
Bond strength ASTM C633	>8000 psi (60 MPa)

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