

DATA SHEET

SermeTel® CF 5380DP
Chrome Free Coating System

A Linde company



Making our world
more productive



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SermeTel® CF 5380DP consists of a closely packed aluminum-filled galvanically sacrificial basecoat, sealed with a chemically inert glossy topcoat. The coating provides excellent corrosion, erosion, and fouling protection to stainless steel and ferrous alloys, operating at temperatures up to 1200°F (649°C).

Advantages

SermeTel CF 5380DP should be used on any component where serious concerns are corrosion/erosion protection, tight tolerances, and surface finish. On dimensionally critical surfaces, precision coating thickness as thin as 0.3 mils (7.5 µm) can be achieved.

The main features and environmental profile of SermeTel CF 5380DP include:

- Excellent corrosion resistance and surface finish
- SermeTel CF 5380DP coatings are chrome-free, not containing any toxic or extremely hazardous substances
- SermeTel CF 5380DP topcoat contains <100g/liter VOC
- Cured SermeTel CF 5380DP coatings are compliant with RoHS regulations

Applications

The aerodynamic finish of SermeTel CF 5380DP makes it ideal for any gas path turbine component, such as compressor blades, vanes and shroud assemblies, and diffusers.

SermeTel CF 5380DP meets the performance requirements of OEM specifications for SermeTel CF 5380DP.



Physical Properties

Thickness

0.3 to 0.4 mils (7.5 to 162 µm), typically 1.5 mils (37.5 µm) with a tolerance of + 0.3 mils (7.5 µm)

Surface Profile

≤10 pinches @ .010" cutoff on new fight components (.25 µm @ 0.3mm)

≤25 pinches @ .030" cutoff on new IGT gas path surfaces (.63 µm @ 0.8 mm) average 15-20 pinch (.38 to .50 µm)

Performance Data (2 mils (50 µm) coating on 1010 steel)

Test	Results
Salt Spray (ASTM B117)	No red rust or blistering on panels after >1000 hours - ongoing
Abrasion Resistance (ASTM D968)	100 liters/mil