

# Aseal

## Process **BOR 1993 SC** Coating System

### PRODUCT DESCRIPTION

Aseal Process **BOR 1993 SC** consists of a packed aluminum-filled chromate/phosphate basecoat (Aseal 519), sealed with a chemically inert chromate phosphate topcoat (Aseal 598SC). The coating system provides excellent protection to stainless steel and ferrous alloys and will operate at temperatures up to 1150°F.

### PURPOSE

Process **BOR 1993 SC** should be used on any component where serious concerns are corrosion/erosion protection, tight tolerances and a smooth surface finish. The coating process can be applied as thin as 0.3 mils on dimensionally critical surfaces.

### APPLICATIONS

The aerodynamic finish of **BOR 1993 SC** provides the ideal coating for any gas path turbine component such as compressor blades, vane, shroud assemblies and diffusers. Aseal products have seen millions of hours of successful service in military, commercial aviation and industrial turbines.

### SPECIFICATIONS

(Aseal 519/598)

General Electric

Ground Turbines under P16A-AG5

**BOR 1993 SC** - Approved for use on:  
Wood Group O&R IGT Hardware  
Wood Group/Pratt Whitney Aero-Diverative Hardware



### PHYSICAL PROPERTIES

**Thickness:** 0.3-5.0 mil  
Typical – 1.5-3.0 mil

**Surface Finish:** <25Ra @  
.030" cutoff on new IGT  
gas path surfaces.

### PERFORMANCE DATA

(2 mil coating- 1010 steel)

**Falling Sand Abrasion:**  
(ASTM D968)  
< 1.0 mil loss per 300 L  
sand.

**Salt Spray:**  
(ASTM B117)  
>2500 hours, no red rust

**Tensile Bond Strength:**  
(ASTM C6333)  
>8500 psi

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