



EPOLY® - PROCESS SPECIFICATIONS

PS-9: EPOLY® CONTINUED AIRWORTHINESS STANDARDS

August 14, 2013
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GENERAL:

This Process Specification sets forth the requirements for the continued airworthiness of **EPOLY®** restored, repaired and coated surfaces of housings and assemblies for the following typical components: Fuel and oil pumps, actuators, valves, heat exchangers and fuel controls.

DISTRIBUTION:

A copy of these instructions is to be delivered to each operator of **EPOLY®** coated products and to customers of each new repair and routing developed by Interface Air Repair.

FREQUENCY:

Every **EPOLY®** coated surface is to be inspected each time the product or component is disassembled for any reason. Inspections are to be conducted at intervals in accordance with the operator's approved maintenance program, OEM standards or these instructions.

LIMITATIONS:

1. **EPOLY®** restored or repaired surface coatings are not subject to calendar time limitations or limited by hours or cycles of operation. If not rejected for service related distress, they may be returned to service.
2. The maximum operating temperature of **EPOLY®** is 490°F.
The minimum operating temperature of **EPOLY®** is minus 65°F.
3. Localized corrosion, erosion or cavitation pitting in, under or adjacent to **EPOLY®** surface coatings, which exposes bare parent material, is cause for rejection if over 0.010 inch deep or not smooth.
4. Localized scoring and/or all sharp edges due to FOD or wear in or directly adjacent to **EPOLY®** surface coatings, which exposes bare parent material, is cause for rejection if over 0.005 inch deep or not smooth.

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EXAMINED & APPROVED

DATE 8/16/13
BY [Signature]
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SAN DIEGO, CA

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PRECAUTIONS:

Do not expose **EPOLY®** coated surfaces to the following:
Strong concentrations of mineral or oxidizing acids.
Strong and/or hot caustic solutions or vapors.
Alodining and/or anodizing cleaners and solutions.
Plating cleaners and solutions.
Paint, paint remover or paint thinner.

CLEANING:

Clean oil, fuel, grease, hydraulic fluid or other foreign material contamination from **EPOLY®** coated surfaces with warm water and soap or mild petroleum solvents.

INSPECTION:

1. Inspect **EPOLY®** restored or repaired surfaces and parent material surfaces immediately adjacent to the **EPOLY®**, for the following conditions, which are cause for rejection and possible rework:
Contamination of **EPOLY®** with foreign material, scoring, excessive wear, corrosion, erosion, or cavitation pits.
2. Inspect all edges of **EPOLY®** coated surfaces, paying particular attention to those edges adjacent to the inlet and outlet ports of pump housings, actuators and valves using a 5 or 10 power magnifying glass. The following conditions are cause for rejection and possible rework:
 - a. **EPOLY®** surfaces which are delaminated from their parent material base.
 - b. Roughness, sharp or feather edges.
 - c. Corrosion, erosion or cavitation pitting, scoring, gouging, tearing or cracking.
 - d. Parent material made bare by rework, galling, fretting, disassembly, corrosion, erosion, and/or cavitation.

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REWORK:

Rework for the rejected conditions shown above can be accomplished as follows:

- a. Delaminated **EPOLY®** surfaces are to be returned to Interface Air Repair for repair evaluation.
- b. Localized roughness, sharp or feather edges are to be lightly smoothed and blended flush with crocus cloth or No. 400 emery cloth.
- c. Corrosion, erosion or cavitation pitting, scoring, gouging, tearing or cracking are to be repaired in accordance with the OEM component maintenance manual, or other OEM rework or repair instructions, assuring that:
 - i. All limitations above, and OEM limitations, are adhered to.
 - ii. All parent metal corrosion is glass bead peened, in accordance with proper industry standards, to remove every trace of corrosion.
 - iii. OEM, operator or limitations mentioned above for minimum wall thickness are strictly followed.
 - iv. All parent material made bare by rework, scoring, disassembly, corrosion, erosion, and/or cavitation pitting, galling and/or fretting must be cleaned and coated locally with conversion coating in accordance with OEM, operator or industry standards.
- d. Inspection rejected housings and other components containing **EPOLY®** coated surfaces should be returned to Interface Air Repair for repair evaluation and recommendation.

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RETURN TO SERVICE:

- 1. Prior to reassembly, lightly coat **EPOLY®** coated surfaces with silicone grease, turbine oil, hydraulic fluid or OEM recommended lubricant, as appropriate.
- 2. Perform final inspection, reassembly and testing in accordance with instructions of the OEM component maintenance manual.

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