



Aviation Devices & Electronic Components, L.L.C.
Phone: 817-738-9161

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INSTALLATION INSTRUCTIONS

Av-DEC® Fuel Resistant Gasket Installation

NOTE: Read this installation specification completely before gasket installation.

1. SCOPE

This specification describes the method for aircraft surface preparation and installation of the Av-DEC® **Hi-TAK® Polyurethane Fuel Resistant Gasket** between a fuel access panel or clamp ring and aircraft skin or structure.

2. APPLICABLE DOCUMENTS

Engineering orders, aircraft maintenance manual and/or user maintenance manual as applicable. Adhere to all FAA approved Critical Design Control Configuration Limitations (CDCCL) requirements as specified in the OEM AMM.

3. REQUIREMENTS

3.1 MATERIALS - Cleaning Solvent - Isopropyl alcohol or other approved cleaning solvent.

3.2 SURFACE PREPARATION - Surfaces that will come in contact with the gasket shall be free of paint, dust, oil, grease, fingerprints, and other contamination prior to installation. Any primer or paint shall be removed to expose clean bare metal. Residue of previously applied adhesives, sealants, or sealing materials shall also be removed. Inspect surface areas for corrosion and take corrective action based upon current maintenance manual requirements. The surface shall be wiped with a clean, solvent dampened cloth, followed immediately by wiping with a clean dry cloth. An appropriate chemical conversion coating may be applied to the aircraft skin surface or access panel and allowed to dry per manufacturer's instructions. **The use of grease is not required and should not be used on this gasket or mating surfaces.**

3.3 GASKET INSTALLATION - Av-DEC® Hi-TAK® Polyurethane Fuel Resistant Gaskets are supplied with protective release film on both sides of the gasket. Leave release film in place until ready to install gasket. Remove gasket from the protective packaging, taking care not to fold or bend. Verify that gasket shape and fastener hole locations in the gasket will align with the fuel access panel or clamp ring by placing the gasket on the panel or ring. Turn the gasket over and carefully remove the release film from the side of the gasket that will contact the fuel access panel or clamp ring. Turn the gasket back over and position the gasket over the fuel access panel or clamp ring. Beginning at one fastener location, place the gasket into position, carefully aligning gasket fastener holes with fuel access panel or clamp ring fastener holes. Release film should remain on exposed side of the gasket until immediately prior to fuel access panel or clamp ring installation.

3.4 FUEL ACCESS PANEL INSTALLATION – Carefully remove release film from the exposed side of the gasket. Pre-position at least two fasteners through the fuel access panel or clamp ring and gasket. Align fasteners at correct locations on the aircraft mating surface. Tighten each fastener one to two turns to hold the panel or ring in place on the aircraft. Install remaining fasteners through



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the fuel access panel or clamp ring and gasket. Tighten fasteners in accordance with approved maintenance manual procedures.

3.5 FILLET SEAL - Fillet sealing is not required with Av-DEC® Hi-TAK® Polyurethane Fuel Resistant Gasket. However, a fillet seal may be used along with the gasket if required by maintenance or installation documentation.

4. MAINTENANCE

Installation of the Av-DEC® Hi-TAK® Polyurethane Fuel Resistant Gasket requires no additional maintenance tasks to those already specified in the approved maintenance manual procedures.

5. GASKET REMOVAL

After removing fuel access panel or clamp ring fasteners, use a phenolic or wooden tool as a wedge between the panel and aircraft surface to separate the panel from the aircraft. After the panel is removed, peel the gasket material away and discard. Use isopropyl alcohol or other approved cleaning solvent to remove any remaining residue.

6. GASKET REPLACEMENT

The Av-DEC® gasket must be replaced each time the fuel access panel or clamp ring is removed after the aircraft has been fueled. If the aircraft is still in maintenance and has not be refueled, carefully remove the access panel or clamp ring, taking care not to damage the gasket. Replace the gasket if any wire strands extend more than 1/16" from the perimeter of the gasket, or if any polyurethane sealant is missing and the mesh is exposed. (See Figure 1)

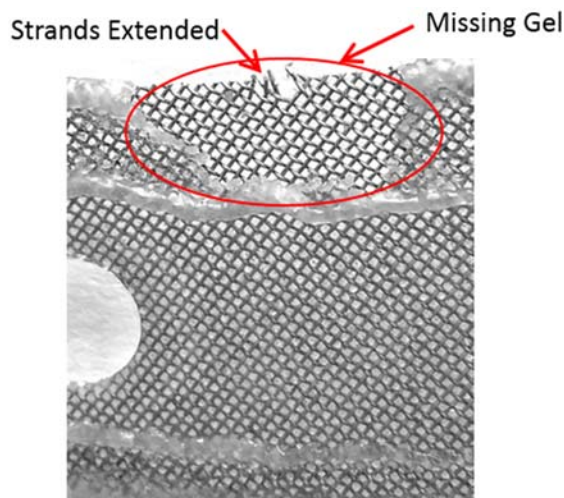


Figure 1