**Easy Installation in Less Time**

GORE™ SKYFLEX™ Aerospace Tapes and Gaskets are significantly easier to install than polysulfide FIP seals. They eliminate cure time for sealing and protective materials, significantly reducing manufacturing cycles and direct maintenance time. These materials do not require special equipment or training to install. In addition, their unique construction enables them to maintain their protective performance over multiple open/close cycles, which translates to fewer replacements and re-work of seals and significant savings in personnel time during production and maintenance.

Unlike traditional two-component materials, Gore’s materials require no mixing, masking or clean-up after installation. In addition, the non-hazardous material reduces environmental impact, disposal costs, and improves safety for installation personnel.

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**Table 1: Comparison of GORE™ SKYFLEX™ Aerospace Materials**

<table>
<thead>
<tr>
<th>Property</th>
<th>100 Series</th>
<th>110 Series</th>
<th>200 Series</th>
<th>500 Series</th>
<th>520 Series</th>
<th>700 Series</th>
<th>720 Series</th>
<th>730 Series</th>
<th>1600 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion/anti-chafe protection</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<tr>
<td>Corrosion protection</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<tr>
<td>Environmental sealing</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
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</tr>
<tr>
<td>Gap-filling</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<tr>
<td>Jet fuel sealing</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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</tr>
<tr>
<td>Gap-filling compensation range – single layer (mm)</td>
<td>.15 to 2.0</td>
<td>.5 to 3.5</td>
<td>.5 to 3.0</td>
<td>28 to 9.6</td>
<td>.3 to 2.5</td>
<td>.15 to 1.4</td>
<td>.2 to 1.2</td>
<td>.15 to 1.4</td>
<td>.15 to 1.4</td>
</tr>
<tr>
<td>Low Compressive Forces</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<td>++</td>
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<tr>
<td>High Compressive Forces</td>
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<td>++</td>
<td>++</td>
<td>++</td>
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<td>++</td>
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<tr>
<td>Vibration</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Frequent opening, access</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<tr>
<td>Aviation fluid exposure</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>++</td>
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<tr>
<td>Jet fuel exposure</td>
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<td>++</td>
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<td>++</td>
</tr>
</tbody>
</table>

**Application Environment**

**Best uses**
- Big gaps, low compressive forces
- Big gaps, very low compressive forces
- Gap-filling
- Gaskets > 19 inches
- Fuel seals > 18 inches
- Most applications, especially high vibration or repeated access
- Areas with repeated exposure to hydrocarbons
- Areas with repeated exposure to aviation fluids
- Surface protection – no compression required
- Floor board edges

**Available forms**
- Tape
- Gasket
- Tape, gasket

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**Notice — Use Restrictions Apply**

Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

**W. L. Gore & Associates**

gore.com
Proven by more than 20 years of successful applications, GORE™ SKYFLEX™ Aerospace Materials are lightweight materials that provide a no-cure seal for panels, fairings, and floorboards while protecting surfaces against vibration damage. They remain flexible and compliant over multiple open/close cycles, providing durable protection against corrosion and the ingress of water, fuels, and oils.

GORE™ SKYFLEX™ Aerospace Materials are engineered from expanded Polytetrafluoroethylene (ePTFE). These products are available in a form-in-place tape or die-cut gasket and with options for materials resistant to fuels, oils, and hydraulic fluids.

To prevent chafing damage caused by the abrasion of the aircraft’s panels against airframe structure, GORE™ SKYFLEX™ Aerospace Materials expanded PTFE tape installed between panel and structure provides a durable, low-friction barrier to absorb effects of airframe vibration.

**Benefits**
- **Easy installation** from single-component material
- **No curing** reduces manufacturing cycles and maintenance downtime
- **Less replacement and re-work** of seals by maintaining performance over multiple open/close cycles
- **Improved sealing** of irregular surfaces with highly conformable materials
- **Durable protection** against mechanical forces, extreme temperatures, fluids, and other environmental hazards
- **Low environmental impact** from non-hazardous waste

Suggested areas for applications are presented in Table 1. For more information or assistance in selecting the right materials for your application, contact your Gore representative.

**Applications**
- Access panels
- Anchor nut gaskets
- Antenna gasket fastener seal
- Body fairings
- Cargo floorboards/structure
- Dry-bay gasket
- Engine cowling
- External fuel tanks
- Fuel bladder cavity
- Engine cowling
- Helicopter tail boom
- Lamp seal
- Passenger floorboards
- Pitot tube
- Windshields/Windows

GORE™ SKYFLEX™ Aerospace Materials
- 720 and 730 Series Tapes are effective at sealing access panels and protecting against abrasion and aviation fluids.
- Die cut gaskets provide precision sealing for fuel and environmental sealing applications.
- 1600 Series tape protects structure and coatings with a durable, wear-resistant surface.
- 110 Series tape seals windshields and panels with no cure time, enabling quick installation and replacement.

The examples presented in this document were applied using Gore’s best practices for installing GORE™ SKYFLEX™ Aerospace Materials. In addition, instructional videos are available at www.gore.com/skyflex

**Note:** This document is only a guide, and procedures in the current version of the technical orders supersede examples presented in this document.