SUPER SPACER® STRUCTURAL FOAM SPACER SYSTEMS
for high-performance, Warm Edge insulating glass units
What is Warm Edge Technology?

“Warm Edge” refers to the thermal conductivity of the spacer used to separate the lites of an insulating glass unit. If the spacer material is less conductive than conventional aluminum, it is called warm edge. Most of the newer spacers perform better than aluminum, but still contain some metal - often steel or aluminum wrapped in butyl rubber - and this metal is highly conductive.

What is Super Spacer?

Super Spacer® is an extruded, thermoset polymer structural silicone foam tape with integrally incorporated desiccants. The shape of the thermoset polymer material is set during heat curing and can’t be reshaped through reheating. Super Spacer retains its flexibility over a wide temperature range, always returns to its original cured shape and has a low compression set. The silicone formula of Super Spacer exhibits excellent resistance to ozone, sunlight, oxidation and has excellent color stability.

Super Spacer Construction

1. Smooth, matte finish guaranteed against blistering and bubbling.
2. Thermoset silicone foam matrix.
4. Structural adhesive combines with perimeter edge sealant for dual seal performance and durability.

The NO-Metal Advantage

The edge of an IG unit is the most vulnerable part of the glass to heat and cooling losses, condensation and frosting. Edgetech’s Super Spacer contains NO-Metal and is one of the most thermally efficient IG spacer available today.

Super Spacer® Features

Reduces Sealant Stress

Super Spacer’s thermoset silicone polymer material expands and contracts and always returns to its original shape. Rigid spacers do not accommodate the natural expansion and contraction caused by UV exposure, thermal expansion, wind loads and barometric pressure. The results are stress cracks that eventually lead to seal failure.

Super Spacer sealed IG units last up to five times longer in durability tests than conventional single seal units. Super Spacer features superior Argon and Krypton gas retention.

Improves Heat Flow Resistance

Super Spacer resists heat flow at a rate of 950 times more than that of aluminum. This means lower energy costs, less condensation/frosting and reduced chances for mold growth.

Improves Glass Surface Temperature

Super Spacer’s extremely low thermal conductivity means less variation in the surface temperature of the IG unit.

The surface temperature of the glass at the sightline, or the edge of the IG units, with Super Spacer is typically 16.6°F (9.23°C) warmer than with a conventional aluminum spacer.

Improves Condensation Resistance

Mold needs moisture to grow. The significantly reduced tendency of IG units fabricated with Super Spacer to exhibit interior condensation or frosting means that the health problems associated with mold can be almost eliminated.

Health Canada research found that Super Spacer helped IG units stay in the optimum low-humidity zone that prevents mold and bacteria growth.

Improves Sound Absorption

The closed-cell polymer foam in Super Spacer transmits very little sound compared to conventional aluminum spacers or less-metal warm edge spacers.

We recommend using Super Spacer wherever noise from airplanes, trains or automobiles may be a problem for building occupants.

Globally Tested and Proven with Awards

Since its introduction in 1989, Super Spacer is still the only polymer foam, NO-Metal warm edge spacer. Over 70 million feet of Super Spacer is used annually worldwide since the start of production over 15 years ago. Edgetech received the 1994 “Solar Company of the Year” award issued by Solar Energy Society of Canada, Inc. Edgetech is an Energy Star Partner.

Testing Data is available to show that IG’s made with Super Spacer meets standards used in the USA, Canada, Germany, Great Britain, Norway, China and Europe. It also meets Dade County Hurricane standards.
**Super Spacer Selection Chart**

for Architectural Captured Glazing Units

**PREMIUM PLUS**
(greater than 65 sq. ft. IG unit)
Available from: 1/8” (3.0mm) to 13/16” (20.5mm) airspace
*Metric spacer widths are conversions to the nearest half millimeter from imperial sizes.
Standard Colors: Black, Warm Grey
Optional Colors: White, Aluminum Grey, Almond (Minimum Order = 5,000 ft./1,500 m)
Custom Options: As defined by Specifier (Minimum Order 50,000 ft./15,000 m)

**PREMIUM**
(less than 65 sq. ft. IG unit)
Available from: 3/16” (5.0mm) to 3/4” (19.0mm)
*Metric spacer widths are conversions to the nearest half millimeter from imperial sizes.
Standard Colors: Black, Warm Grey
Optional Colors: White, Aluminum Grey, Almond (Minimum Order = 5,000 ft./1,500 m)
Custom Options: As defined by Specifier (Minimum Order 50,000 ft./15,000 m)

**CUSHION EDGE™**
(largest size Insulating glass unit is 5’ (1.5m) x 5’ (1.5m))
Available from: 1/2” (12.5mm) to 13/16” (20.5mm)
*Metric spacer widths are conversions to the nearest half millimeter from imperial sizes.
Standard Color: Warm Grey
Optional Colors: Almond, Gold, Black (Minimum Order = 5,000 ft./1,500 m)
Custom Options: As defined by Specifier (Minimum Order 50,000 ft./15,000 m)

### COMPARISON OF SUPER SPACER PRODUCT PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>Aluminum Spacer</th>
<th>Premium/Premium Plus</th>
<th>Cushion Edge™</th>
<th>TriSeal™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass Surface Temperature</strong></td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Thermal Performance</strong></td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Condensation Resistance</strong></td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Edge Seal Integrity</strong></td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Dew Point Drop</strong></td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Sound Absorption</strong></td>
<td>Good</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Sealant Stress Reduction</strong></td>
<td>Good</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Excellent</td>
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<tr>
<td><strong>Compression Set</strong></td>
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<td>Very Good</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>UV Resistance</strong></td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td><strong>Desiccant Capacity</strong></td>
<td>Excellent</td>
<td>Excellent*</td>
<td>Very Good</td>
<td>Excellent</td>
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<tr>
<td><strong>Structural Strength</strong></td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Volatile Out-Gassing</strong></td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
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<tr>
<td><strong>Triple Glaze</strong></td>
<td>With 2 Spacers</td>
<td>With 2 Super Spacers</td>
<td>Max 5’ x 5’</td>
<td>With 2 Super Spacers</td>
</tr>
<tr>
<td><strong>Wind Loading</strong></td>
<td>Very Good</td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
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<tr>
<td><strong>Captured Glazing</strong></td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Structural Glazing</strong></td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td><strong>Compatible with Performance Coatings</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Standard Colors</strong></td>
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<td>One</td>
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<td><strong>Optional Colors</strong></td>
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<td>Three; 5,000’ min</td>
<td>Three; 5,000’ min</td>
<td>Three; 5,000’ min</td>
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<tr>
<td><strong>Custom Colors</strong></td>
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<td>Yes; 50,000’ min</td>
<td>Yes; 50,000’ min</td>
<td>Yes; 50,000’ min</td>
</tr>
</tbody>
</table>

*33% more than Premium*
**System Description**

Super Spacer® is a flexible, silicone foam product providing maximum perimeter insulation for sealed insulating glass units. It is desiccant filled with pre-applied sealant/adhesive for bonding to the glass with a vapor barrier backing.

**Submittals**

Super Spacer® Premium Plus and Premium are flexible, silicone foam spacers that provide the maximum in perimeter insulation for sealed glazing units.

1. Thermoset structural foam containing NO-Metal with integral 3A desiccant
2. Pre-applied sealant/adhesive for glass bonding
3. Secondary Sealant
4. Pre-applied advanced multi-layer vapor barrier

Super Spacer® Cushion Edge™ is a flexible, U-shaped silicone foam spacer used to wrap and cushion delicate, center-lite art glass and triple glazed units.

1. Thermoset structural foam containing NO-Metal with integral 3A desiccant
2. Pre-applied sealant/adhesive for glass bonding
3. Metal Cam
4. Pre-applied structural acrylic adhesive
5. Pre-applied advanced multi-layer vapor barrier

Super Spacer® TriSeal™ features a continuous vapor barrier backing across the profiled back of the spacer, and is engineered to accept both a butyl primary seal and a silicone secondary seal.

1. Flexible silicone foam
2. PIB primary seal
3. Silicone, Polyurethane, Polysulfide, DSE/DSSAs or Hot Melt secondary seal
4. Pressure-sensitive acrylic adhesive
5. Pre-applied advanced multi-layer vapor barrier

**Quality Assurance**

Edgetech is an Energy Star® Partner. The company has also earned the Solar Company of the Year Award from the Solar Energy Society of Canada Inc. and the Crystal Achievement Award for our Health Smart Windows® program.

**Warranty**

Edgetech warrants that the Product (Super Spacer Premium Plus, Premium, TriSeal and/or Cushion Edge) will be free from manufacturing defects at the time of shipping from Edgetech. Further, Edgetech agrees to replace any Product (Super Spacer Premium Plus, Premium, Super Spacer TriSeal and/or Cushion Edge) that fails because of manufacturing defect. Super Spacer Premium Plus, Premium, Super Spacer TriSeal and/or Cushion Edge are guaranteed not to blister or bubble within 20 years of purchase.

This warranty applies under conditions of normal use by window manufacturers and does not apply to defects that result from intentional damage, improper storage or excessive exposure prior to use. This warranty does not apply to edge-seal workmanship, which is the responsibility of the insulating glass manufacturer.