SUPER SPACER® STRUCTURAL FOAM SPACER SYSTEMS
for high-performance, Warm Edge insulating glass units
Super Spacer® Features

Reduces Sealant Stress
Super Spacer’s thermostatic 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 glazing pressure, thermal expansion, wind loads and barometric pressure. The results are stress cracks and sealant movement 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.

Maximizes Heat Flow Resistance
Super Spacer resists heat flow at a rate of 1500 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® TriSeal™ is typically 14°F / 7.8°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 may be virtually eliminated.

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

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

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

Globally Tested and Proven with Awards
Super Spacer is the world’s first polymer foam, NO-Metal warm edge spacer. Over 1 billion feet of Super Spacer has been used worldwide since the start of production in 1989. Edgetech received the 1994 “Solar Company of the Year” award issued by Solar Energy Society of Canada, Inc. Super Spacer was awarded the DWM Green Product Award in both 2009 and 2010. Edgetech I.G. is also an ENERGY STAR® Partner.

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

Super Spacer Construction
1. Smooth, matte finish guaranteed against blushing and bubbling.
2. Thermoset silicone foam matrix.
4. Structural adhesive combines with perimeter sealant for dual seal performance and durability.
5. Captive PIB primary seal for triple seal unit
6. Available in standard colors from the bottom of the next page
7. Source: Health Canada
8. Research done by Health Canada found that Super Spacer helped IG units stay in the optimum low-humidity zone that prevents mold and bacteria growth.
9. Promotes Sound Absorption
10. Globally Tested and Proven with Awards
11. The NO-Metal Advantage

Super Spacer Selection Chart

for Architectural Structural and Captured Glazing Units

<table>
<thead>
<tr>
<th>TRISIAL™</th>
<th>PREMIUM PLUS</th>
<th>PREMIUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available Sizes:</td>
<td>0.323&quot; (8.2mm) to 0.874&quot; (22.2mm) airspace</td>
<td>Recommended for IG greater than 65 sq. ft. (6m²)</td>
</tr>
<tr>
<td>Standard Colors:</td>
<td>Black, Grey and Aluminum Grey</td>
<td>0.125&quot; (3.2mm) to 0.787&quot; (20.0mm) airspace</td>
</tr>
<tr>
<td>Optional Colors:</td>
<td>Are Available (Minimum Order Required)</td>
<td>Standard Colors: Black, Grey and Aluminum Grey</td>
</tr>
<tr>
<td>Custom Options:</td>
<td>As defined by Specifier (Minimum Order Required)</td>
<td>Optional Colors: Are Available (Minimum Order Required)</td>
</tr>
<tr>
<td>Custom Options:</td>
<td>As defined by Specifier (Minimum Order Required)</td>
<td>For Architectural Captured Glazing Units</td>
</tr>
</tbody>
</table>

**COMPARISON OF SUPER SPACER PRODUCT PERFORMANCE**

- **Glass Surface Temperature**
  - Poor
  - Good
  - Excellent
  - Premium

- **Thermal Performance**
  - Poor
  - Good
  - Excellent

- **Condensation Resistance**
  - Poor
  - Good
  - Excellent

- **Edge Seal Integrity**
  - Good
  - Very Good
  - Excellent

- **Dew Point Drop**
  - Good
  - Excellent

- **Sound Absorption**
  - Good
  - Excellent

- **Sealant Stress Reduction**
  - Good
  - Very Good
  - Excellent

- **Compression Set**
  - Good
  - Excellent

- **UV Resistance**
  - Excellent
  - Good
  - Excellent

- **Dissipative Capacity**
  - Excellent
  - Good
  - Excellent

- **Structural Strength**
  - Excellent
  - Good
  - Excellent

- **Vapor Out-Gassing**
  - Pass
  - Yes

- **Triple Glazed**
  - Yes
  - Yes

- **Mind Leading**
  - Very Good
  - Good
  - Excellent

- **Captured Glazing**
  - Yes
  - Yes

- **Structural Glazing**
  - Yes
  - Yes

- **Compressive with Performance Coatings**
  - Yes
  - Yes

- **Standard Colors**
  - Available
  - Available

- **Optional Colors**
  - Available
  - Available

- **Custom Colors**
  - Available
  - Available

- **Hard Coatings**
  - Available
  - Available

*Simulations performed by Environmental Engineering Ltd. using Windows 5.2 and Thermo 12.2 as per NFRC 100-2001. Outside temperature 70°F, inside temperature 70°F, inside temperature 30°F. Lower in glass PVB foils for all glass spacers. All metal, 65% Argentine AB (Cu) 64% Al. 0.19" of silicone secondary seal was used on all spacers. Temperature results shown are average temperatures.
PART 1 - GENERAL

References (contact Edgetech for details)
1. North America ASTM E1288/ E1289/ E2190
2. European EN 1279
3. Canadian CGSB 12.8
4. ASTM E330 (120* psf positive, 155* psf negative)
5. French Standard CSTB for CEKAL
6. Industry type P-1 testing
7. Edgetech is an ENERGY STAR® Partner

* no failure; maximum limitations of testing equipment

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 adhesive for bonding to the glass with a vapor barrier backing.

Submittals
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. Thermoset structural silicone foam containing NO-Metal with integral 3A desiccant
2. PIB primary seal
3. Silicone, Polyurethane, Polysulfide, DSE/DSA’s or Hot Melt secondary seal
4. Pressure-sensitive acrylic adhesive
5. Pre-applied advanced multi-layer vapor barrier

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 silicone 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

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., the DWM Green Product award and the Crystal Achievement Award for various marketing programs.

Warranty
Edgetech warrants that the Product (Super Spacer Premium Plus, Premium and/or TriSeal) 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 and/or TriSeal) that fails because of manufacturing defect. Super Spacer Premium Plus, Premium, and/or TriSeal are guaranteed not to blister or bubble within 40 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.

PART 2 - PRODUCTS

Manufacturer
Edgetech I.G. Inc. • 800 Cochran Avenue • Cambridge, Ohio 43725 • USA
T: 740.439.2338 • Toll Free: 866.TRUEWARM • F: 740.439.0121
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Insulating Glass Units
Specification Description:
Super Spacer TriSeal — a triple seal design suitable for Structural Glazing, consisting of a thermoset foam spacer incorporating integral 3A desiccant, pre-applied adhesive for glass bonding, a captive polysiloxylene primary seal, and a structural seal.

Super Spacer — a reverse dual seal design consisting of a thermoset foam spacer, multi-layer vapor barrier and preapplied sealant/adhesive for glass bonding requiring a secondary seal.


PART 3 - EXECUTION

Installation
No special procedures required for Insulating Glass units fabricated with the Super Spacer system.

Field Quality
No special inspection procedures required for IG units fabricated with the Super Spacer system.

Protection
Follow usual requirements for protecting IG units.

AVAILABILITY
Super Spacer products are available throughout the world through insulating glass manufacturers, dealers, distributors and direct from Edgetech I.G. Inc. Please contact the location nearest you for further information, technical data, specifications, samples or a list of insulating glass fabricators using Super Spacer.