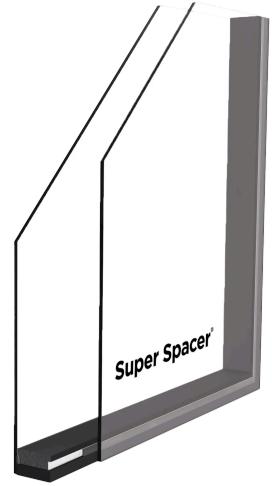




## SUPER SPACER TRISEAL PREMIUM PLUS PRODUCT DATASHEET (US)

# Super Spacer®

Super Spacer® TriSeal™ Premium Plus is a flexible, silicone spacer designed to satisfy the toughest commercial glazing demands including silicone structural glazing (SSG). Its unique triple-seal design incorporates an inner acrylic adhesive seal for immediate unit handling.



### Basic Use

Super Spacer TriSeal Premium Plus is a dual seal insulating glass spacer system that uses a high-performance acrylic adhesive for its structural seal and is backed with a proprietary multi-layer moisture vapor seal.

Super Spacer TriSeal Premium Plus comes complete with a polyisobutylene primary seal for enhanced gas retention and low moisture vapor transmission. A customer-applied silicone seal provides proven structural performance. Polyurethane, polysulfide and hot melt butyl / DSE's are acceptable sealants for captured glazing applications.

### Colors

Black and Grey.

### Composition

Silicone base with desiccant pre-fill and pre-applied PIB.

### Desiccant Fill

Molecular-sieve.

### Protective Packaging

To provide desiccant protection, the reels are sealed in moisture-proof foil bags. The reels are then shipped in recyclable cardboard boxes.

### Technical Services

Your Quanex Representative, in conjunction with your Quanex Technical Service Group, can provide in-plant training and assistance with special applications.

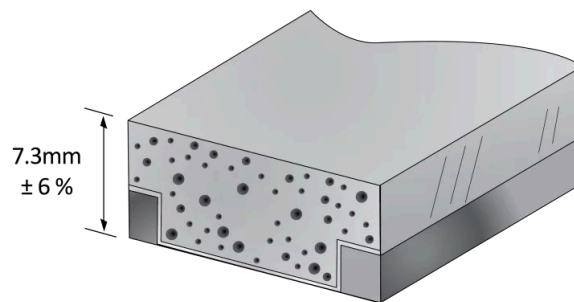
### PERFORMANCE

### NORM

|                                                                                                           |                                             |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Thermal conductivity<br>0.141 W/m°K when<br>used with PIB primary<br>sealant                              | ASTM C 518                                  |
| Gas / Moisture vapor<br>barrier<br>WVTR: Below<br>detectable limits<br>Oxygen: Below<br>detectable limits | ASTM F 1249<br>ASTM D 3985                  |
| Primary structural seal<br>Acrylic adhesive                                                               | –                                           |
| Fogging<br>No fog in visual area.                                                                         | ASTM E 2190<br>EN 1279 – 6<br>CAN/CGSB 12.8 |
| Gas Retention                                                                                             | EN 1279 – 3                                 |
| IG Durability                                                                                             | ASTM E 2190<br>EN 1279 – 2                  |

## Warm-Edge Silicone Features & Benefits

- Superior silicone insulation
- Low thermal conductivity
- Substantially reduced perimeter condensation
- Typical overall 0.2 W/m<sup>2</sup>K (0.04 BTU/h-ft<sup>2</sup>-°F) U-factor window improvement (vs. aluminum)
- Excellent UV resistance
- Excellent temperature performance
- Fast dew-point drop
- Superior compression-set resistance
- Excellent color stability
- Enhanced sound dampening



## Edge-Seal Durability

- High performance multi-layer vapor barrier film
- Continuous vapor barrier at corners
- No chemical fogging
- Very high desiccant content
- Proven edge-seal technology
- Thermoset silicone durability

## Unique Triple-Seal Design

- Inner acrylic adhesive seal for immediate unit handling
- Customer applied polyisobutylene primary seal for enhanced gas retention and low moisture vapor transmission
- Outer secondary seal for proven performance

## Improved Productivity

- Fast spacer application
- Elimination of desiccant filling
- No corner key assembly
- No butyl extruding of frames
- Simplified production of shaped units
- High-volume production with reduced labor force

## Pleasing Aesthetic Appearance

- Smooth matte surface finish
- No surface blistering or bubbling
- Straight-line application with sharp 90° corners

# REEL SIZES

| WIDTH (MM) | WIDTH (INCHES) | METER/REEL | FEET/REEL | FINAL CORNER SEALING STRIP* NOMINAL WIDTH | BLACK CORNER SEALING STRIP* PART NUMBER | GREY CORNER SEALING STRIP* PART NUMBER | FINAL CORNER SEALING STRIP* PIECES PER BAG |
|------------|----------------|------------|-----------|-------------------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------|
| 8.2 mm     | .323"          | 244        | 800       | 8 mm                                      | 005058                                  | 002064                                 | 150                                        |
| 9.5 mm     | .375"          | 213        | 700       | 9 mm                                      | 005059                                  | 003235                                 | 150                                        |
| 10.2 mm    | .402"          | 198        | 650       | 10 mm                                     | 005060                                  | 002455                                 | 150                                        |
| 11.1 mm    | .438"          | 183        | 600       | 11 mm                                     | 005061                                  | 003262                                 | 150                                        |
| 12.2 mm    | .480"          | 168        | 550       | 12 mm                                     | 005062                                  | 002456                                 | 150                                        |
| 14.2 mm    | .559"          | 145        | 475       | 14 mm                                     | 005063                                  | 002457                                 | 150                                        |
| 14.3 mm    | .563"          | 130        | 425       | 14 mm                                     | 005063                                  | 002457                                 | 150                                        |
| 15.9 mm    | .625"          | 137        | 450       | 15 mm                                     | 005064                                  | 003236                                 | 150                                        |
| 16.2 mm    | .638"          | 137        | 450       | 16 mm                                     | 005065                                  | 002063                                 | 150                                        |
| 17.5 mm    | .688"          | 137        | 450       | 17 mm                                     | 005066                                  | 003263                                 | 150                                        |
| 18.2 mm    | .717"          | 107        | 350       | 18 mm                                     | 005067                                  | 002458                                 | 150                                        |
| 19.5 mm    | .750"          | 107        | 350       | 19 mm                                     | 005068                                  | 003264                                 | 150                                        |
| 20.2 mm    | .795"          | 99         | 325       | 20 mm                                     | 005069                                  | 002065                                 | 150                                        |
| 22.2 mm    | .874"          | 91         | 300       | 22 mm                                     | 005070                                  | 002459                                 | 150                                        |

Note: Nominal sizes larger than 0.375" (3/8") have a tolerance of  $\approx \pm 3\%$  for the width (airspace) and  $\approx \pm 6\%$  for the height (thickness).

For nominal sizes 0.375" (3/8") and lower the tolerance is  $\pm 0.010"$  on the width (airspace) and  $\approx \pm 6\%$  for the height (thickness).

Note: All metric dimension equivalent sizes are for reference only.

\*Based upon testing, for systems using secondary sealants other than hot melt butyl or curative butyl, sealing of final corner with PIB backed strips are mandatory for inert gas retention and resistance to moisture ingress

## Terms & Legal Disclaimer

- For all Quanex products, and for other products used with Quanex products, you must follow individual product labels, applicable technical information, and Safety Data Sheets for warnings and precautions before opening packaging and during storage and product use.
- You, including any other user, have sole knowledge and control of factors that can affect the performance of Quanex's products in your intended application. You must conduct tests or analyses to determine the compatibility of Quanex's product with the design, structure, and all materials of your end product, and the suitability of Quanex's product for the method of your application and intended use. You assume all risk and liability arising out of or relating to such use. Quanex makes no representation or warranty that its products are appropriate for all applications. Quanex will not be liable for any failure of its products that results from poor fabrication, improper application techniques, incompatible materials, or from the use of its products in unique, non-standard, or otherwise unsuitable or inappropriate applications.
- Failure to follow applicable guidelines and warnings may result in property and other damage.

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