



TECHNICAL DATA SHEET

EnerEDGE®-S
Cellular Silicone, Warm-Edge
Insulating Glass Spacer

PRODUCT DESCRIPTION

EnerEDGE®-S is a pre-desiccated, ready-to-apply, cellular silicone warm-edge spacer that is suitable for a wide range of insulating glass constructions in fenestration applications.

BASIC USES

EnerEDGE-S is inset and applied to a glass lite's perimeter to enable fabrication of dual- and triple-glazed IG units in conjunction with a quality applied perimeter sealant. EnerEDGE-S can be applied through fully automated, semi-automated, or manual processes.

FEATURES & BENEFITS

EnerEDGE-S utilizes a best-in-class single seal design where the adhesive bond structure and sealant performance are provided by two optimized elements. The inorganic silicone polymer backbone provides premium performance and chassis stability across all applications, climates, and solar exposures. While the thermoset cellular silicone chassis provides an elastic structure to permanently separate the lites of glass for long-lasting performance. EnerEDGE-S features a "low float" edge seal design that minimizes the area of permeability nearest the glass lite surfaces, ensuring superior gas retention and a long service life.

- Desiccant selection of 3A molecular sieve ensures absorption of water and not fill gases
- Desiccant encapsulation in the silicone profile means very fast dew point development
- Acrylic adhesive provides structural bond to enhance applied sealant's properties
- Metallized vapor barrier allows for a wide selection of applied perimeter sealants

The streamlined application of EnerEDGE-S involves no messy applied desiccant beads, coatings, or matrix sealants, improving fabricator productivity and the overall user experience. EnerEDGE-S features an acrylic edge bond adhesive that has a proven high green strength, allowing for immediate handling and faster turnaround. Additionally, the corner notching options of EnerEDGE-S provide fast, crisp application.

- No blistering
- Conforms to performance standards ASTM 2190 and CGSB 12.8

EnerEDGE-S is uniquely suited to provide an attractive, long-lasting seal. It is available in multiple colors to complement different sash designs and finishes. Additionally, EnerEDGE-S provides both temperature and UV stability to ensure best-in-class aesthetics; its silicone polymer composition provides superior stability for lasting colorfastness.

- Matte texture of silicone spacer sightline will remain stable over time
- Low K_{eff} values to minimize condensation and energy loss
- Shaped-unit spacers will match rectangular units

AVAILABILITY

Available from your local Tremco Sales Representative, Tremco Distributor, or Tremco Warehouse in both mini and automation spools in standard widths: 3/16", 1/4", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2", 17/32", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8". The standard height of EnerEDGE-S is 3/16".

Refer to Technical Bulletin No. SSG 1.2, titled "EnerEDGE and EnerEDGE Pro Warm-Edge Spacer Dimensions", for specifics on spool lengths by spacer height, package format, and airspace.

COLORS

Available in Light Grey, Medium Grey, Dark Grey, and Black.

LIMITATIONS

EnerEDGE-S should be applied with a 1/4" (6.4 mm) minimum coverage where the permeability of the applied sealant is between 3 to 6 g/m²•24 hr. EnerEDGE-S should not be used in the following applications:

- IG applications requiring a structurally-glazed/silicone tensile bead IGU design
- IG applications where the moisture permeability of the applied sealant is greater than 6.0 g/m²•24 hr.

EnerEDGE-S should always be stored indoors on pallets with reels oriented vertically as packaged. The shelf life of EnerEDGE-S will be 3 years when stored in unopened containers as directed.

The service temperature of EnerEDGE-S (within the cavity of a normally-glazed IG unit in a structure) is -40 to 203 °F (-40 to 95 °C). The installed spacer's environment is mitigated from the exterior conditions given that the IG cavity separates the temperature of the exterior from the temperature of the interior of the structure.

Contact your local Tremco Sales Representative or Tremco Technical Services for more information.

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULTS
Insulating Glass Unit Performance & Evaluation	ASTM E2190	Passes
Insulating Glass Units	CGSB 12.8	Passes
Water Vapor Absorption Capacity		≥ 6.5 % by weight

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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