

# IGS3703E

## one component insulating glass silicone sealant

### Product Description

IGS3703E insulating glass sealant is a one-component silicone which cures to form a high strength, high modulus sealant exhibiting the following features:

- Excellent adhesion to glass, most reflective glass coatings, aluminum and galvanized steel spacers.
- Manual and robotic dispensing.
- High application rate at low pumping pressures (reduces pump wear).
- Excellent filling and tooling characteristics.
- Low sag or slump. Allows use on automatic sealing equipment.
- Low odour neutral cure.
- Compatible with UltraGlaze\* structural glazing sealants and Silpruf\* weatherproofing sealants.
- Meets applicable requirements of EN1279-4.

### Packaging

IGS3703E is available in 200 liter drums and 600 ml foil packs.

### Colour

IGS3703E insulating glass sealant is available in black and grey.

### Basic Uses

IGS3703E insulating glass sealant is designed for use as an insulating glass secondary seal also called edge seal and is easily dispensed using one component dispensing equipment which is readily available from several equipment manufacturers.

### Limitations

IGS3703E insulating glass sealant is designed to be used in the fabrication of dual sealed insulating glass units. Dual sealed insulating glass units require the use of a polyisobutylene primary seal with bend, soldered, welded or butyl injected spacer frame corners.

Prior to production use, a sample should be taken from each lot of material to be used and checked for proper tack-free time and thick section cure rate prior to placing in production.

---

GE is a registered trademark of General Electric Company and is under license by Momentive Performance Materials Inc. Momentive Performance Materials provides versatile materials as the starting point for its creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices. From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



# IGS3703E one component insulating glass silicone sealant

## Typical Product Data

### Uncured Properties

| Property                 | Value         | Test Method  |
|--------------------------|---------------|--------------|
| Color                    | Black or Grey |              |
| Specific Gravity         | 1.52 Kg/L     |              |
| Work Life (tooling time) | 20-30 minutes |              |
| Tack Free Time           | 45-60 minutes |              |
| Sag/Slump                | < 2 mm        | ISO SAG 7390 |

### Cured Properties - 7 days @ 23°C, 50% RH

### Typical Properties - Cured

| Property                                    | Value  | Test Method           |
|---|--|-----------------------|
| Hardness, Durometer                         | 42 Shore A   | ASTM D2240, ISO 868   |
| Tensile Strength                            | 1.8 MPa  | ASTM D412, ISO 37, S2 |
| Elongation at Break                         | 400%   | ASTM D412, ISO 37, S2 |
| Lap Shear Glass                             | 0.7 MPa  | ASTM C961-06          |
| Service Temperature Range (after cure)      | -40°C to +100°C                                    |                       |
| VOC Content                                 | 30 g/l   | WPSTM C1454           |
| Moisture Vapor Transmission Rate            | 14 g H <sub>2</sub> O· m <sup>2</sup> ·(24H) (2mm) | EN1279 - 4            |
| Gas Permeation Rate                         | 0.54 g/(m <sup>2</sup> ·h)                         | EN1279 - 4            |
| Cure Time (6 mm deep section) @ 21°C 50% RH | 2-3 days   |                       |
| Full Cure (common bead sizes)               | 10-14 days   |                       |

## Technical Data

IGS3703E insulating glass sealant exhibits typical silicone sealant resistance to the environments usually encountered in insulating glass applications. These environments include ultra violet radiation, ozone, high and low temperature extremes and hydrolytic stability (high temperature and humidity).

IGS3703E insulating glass sealant is compatible with many types of coated high performance glass used in insulating glass fabrication. Also, it exhibits compatibility with many types of glazing sealants, particularly silicone glazing sealants. Momentive Performance Materials should be contacted with regard to specific glass types and glazing sealants for adhesion and compatibility information.

## Instructions for Use

### Method of Application

IGS3703E insulating glass sealant should be dispensed using one-component dispensing equipment which is readily available from several equipment manufacturers.

Consult Momentive Performance Materials regarding suggested pumping equipment start-up and shutdown procedures which cover proper operating pressures and purging requirements.

## Handling and Safety

### Precautions

Material Safety Data Sheets are available upon request from Momentive Performance Materials. Similar information for solvents and other chemicals used with Momentive Performance Materials products should be obtained from your suppliers.

When solvents are used, proper safety precautions must be observed. All solvents must be used only in well ventilated areas. Exposure to high vapor concentrations must be avoided. When flammable solvents are used, storage, mixing and use must be in areas away from heat, sparks, flame or other sources of ignition.

In the case of eye contact, immediately flush eyes with large quantities of water for at least 15 minutes and contact physician if irritation persists. This material should not be used in contact with foods, drugs or cosmetics.

## Storage and Warranty Period

Shelf life for the IGS3703E is 13 months from date of manufacture (see use before date on compliance report) when stored in original, unopened containers below 25°C in a dry place. Storage outside in freezing conditions or above 25°C should be avoided.

## Availability

IGS3703E insulating glass sealant is available in drums and foil packs. Information on ordering can be obtained from Momentive Performance Materials; the sales office nearest to you, or an authorized GE sealants distributor. For information regarding cost, contact your local distributor or area manager. Our Customer Service number is: 00.800.4321.1000.

## IGS3703E one component insulating glass silicone sealant

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.ge.com/silicones](http://www.ge.com/silicones) or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Emergency Service

MPM maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

| Location  | Momentive Performance Materials Products   | All Chemical Products               |
|---|--|-------------------------------------|
| Mainland U.S., Puerto Rico                                    | 518.233.2500   | CHEMTREC: 800.424.9300              |
| Alaska, Hawaii  | 518.233.2500   | CHEMTREC: 800.424.9300              |
| Canada  | 518.233.2500   | CHEMTREC: 800.424.9300              |
| Europe  | +518.233.2500<br>(Albanian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbo-Croatian, Slovak, Spanish, Swedish, Turkish, Ukrainian) | +44.(0)208.762.8322 (UK)            |
| Middle East,<br>All countries, except Israel                  | +518.233.2500  | +961.3.487.287 (Lebanon)            |
| Middle East, Israel   | +518.233.2500  | +44.(0)208.762.8322 (UK)            |
| Latin America, Asia/Pacific,<br>all other locations worldwide | +518.233.2500  | CHEMTREC: +1-703.527.3887 (collect) |
| At sea  | Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials at 518.233.2500 or CHEMTREC at 800.424.9300.  |                                     |

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

## CUSTOMER SERVICE CENTERS

---

### North America

E [cs-na.silicones@momentive.com](mailto:cs-na.silicones@momentive.com)

|   |                   |                   |
|---|-------------------|-------------------|
| • Specialty Fluids  | T +1.800.523.5862 | F +1.304.746.1654 |
| • UA, Silanes and Specialty Coatings                      | T +1.800.334.4674 | F +1.304.746.1623 |
| • RTVs and Elastomers                                     | T +1.800.332.3390 | F +1.304.746.1623 |
| • Consumer Sealants & Construction Sealants and Adhesives | T +1.877.943.7325 | F +1.304.746.1654 |

---

### Latin America

E [cs-la.silicones@momentive.com](mailto:cs-la.silicones@momentive.com)

|  |                    |                    |
|--|--------------------|--------------------|
| • Argentina & Chile                                | T +54.11.4862.9544 | F +54.11.4862.9544 |
| • Brazil   | T +55.11.4534.9650 | F +55.11.4534.9660 |
| • Mexico & Central America                         | T +52.55.2169.7670 | F +52.55.2169.7699 |
| • Venezuela, Ecuador, Peru<br>Colombia & Caribbean | T +58.212.285.2149 | F +58.212.285.2149 |

---

### Europe, Middle East, Africa and India

E [cs-eur.silicones@momentive.com](mailto:cs-eur.silicones@momentive.com)

T 00.800.4321.1000

---

### Pacific

E [cs-ap.silicones@momentive.com](mailto:cs-ap.silicones@momentive.com)

T +1.800.820.0202  
T +0.81.276.20.6182 F +81.276.31.6259 |

---

### Worldwide Hotline

T +1.607.786.8131  
T +1.800.295.2392 F +1.607.786.8309 |

---

Visit us at [www.ge.com/silicones](http://www.ge.com/silicones)

---

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC., MOMENTIVE PERFORMANCE MATERIALS USA INC., MOMENTIVE PERFORMANCE MATERIALS ASIA PACIFIC PTE. LTD., MOMENTIVE PERFORMANCE MATERIALS WORLDWIDE INC., MOMENTIVE PERFORMANCE MATERIALS GmbH, THEIR SUBSIDIARIES AND AFFILIATES DOING BUSINESS IN LOCAL JURISDICTIONS (collectively "SUPPLIERS"), ARE SOLD BY THE RESPECTIVE LEGAL ENTITY OF THE SUPPLIER SUBJECT TO SUPPLIERS' STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIERS MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIERS' PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. AFOREMENTIONED EXCLUSIONS OR LIMITATION OF LIABILITY ARE NOT APPLICABLE TO THE EXTENT THAT THE END-USE CONDITIONS AND/OR INCORPORATION CONDITIONS CORRESPOND TO THE RECOMMENDED CONDITIONS OF USE AND/OR OF INCORPORATION AS DESCRIBED BY SUPPLIER IN ITS PRODUCT DATA SHEET AND/OR PRODUCT SPECIFICATIONS. EXCEPT AS PROVIDED IN SUPPLIERS' STANDARD CONDITIONS OF SALE, SUPPLIERS AND THEIR REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Suppliers' materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Suppliers' products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Suppliers' Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Suppliers. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Suppliers or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

\*UltraGlaze is a trademark of Momentive Performance Materials Inc.  
GE is a registered trademark of General Electric.  
Momentive is a trademark of Momentive Performance Materials Holdings LLC.  
Copyright 2011 Momentive Performance Materials Inc. All rights reserved.

161-060-00E-GL  
CDS: DataIGS3703E (04/11)