

DOWSIL™ 3363 Insulating Glass Sealant

Engineered for efficiency and high performance



Enabling economic and energy efficient designs in demanding facades

The design and performance requirements of modern glass facades have become increasingly demanding, particularly in taller structures. Facades designed and built with more glass and less frame result in increased element sizes that must still adhere to the stringent performance demands of high wind and hurricane loads, energy efficiency, acoustical and safety requirements.

For insulating glass (IG) and its secondary sealants these new demands require sealant technology to withstand ever higher loads as the joint depth is increased, which is in contradiction to the design trend requiring more glass. When depth is increased, filling the IG joint requires machines to run slower to effectively fill the deeper joint, which in turn slows production and negatively impacts cost.

Enhanced productivity for gas-filled insulating glass

Dow has developed a new high-strength silicone sealant that enables economical joint sizes in high-demanding insulating glass applications, enhancing productivity. DOWSIL™ 3363 Insulating Glass Sealant is engineered specifically for use as a secondary seal for double and triple air- and gas-filled glazed insulating glass where high strength and economical joint sizes are required. This sealant is an effective alternative to lower-strength conventional sealants (which when used lead to significantly increased joint sizes that impact efficiency, productivity and aesthetics).

50% higher design strength

DOWSIL™ 3363 Insulating Glass Sealant is a two-part, neutral and fast curing, high modulus silicone sealant with a design strength of 0.21 MPa. Its outstanding strength, which is approximately 50% higher than conventional silicone sealants, enables smaller yet stronger IG jointing in tall building design and construction. High strength also limits the stress on the primary sealant, thus adding to façade durability and longevity.

High-demanding applications

This sealant effectively addresses an array of important design and construction considerations and provides valuable advantages in the following applications:

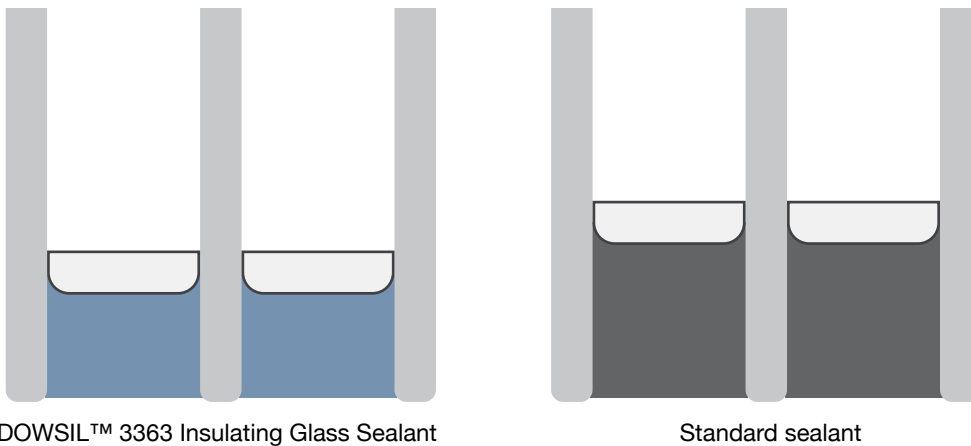
- Ideal for triple-glazed, gas-filled units with high climatic loads meeting EN 1279/parts 2+3
- Large element sizes in high-wind environments
- Hurricane glazing
- High impact loads such as bomb blast
- Insulating glass using cold-bent glass
- Structural capability as secondary sealant for insulating glass in structural glazing

Get more using less

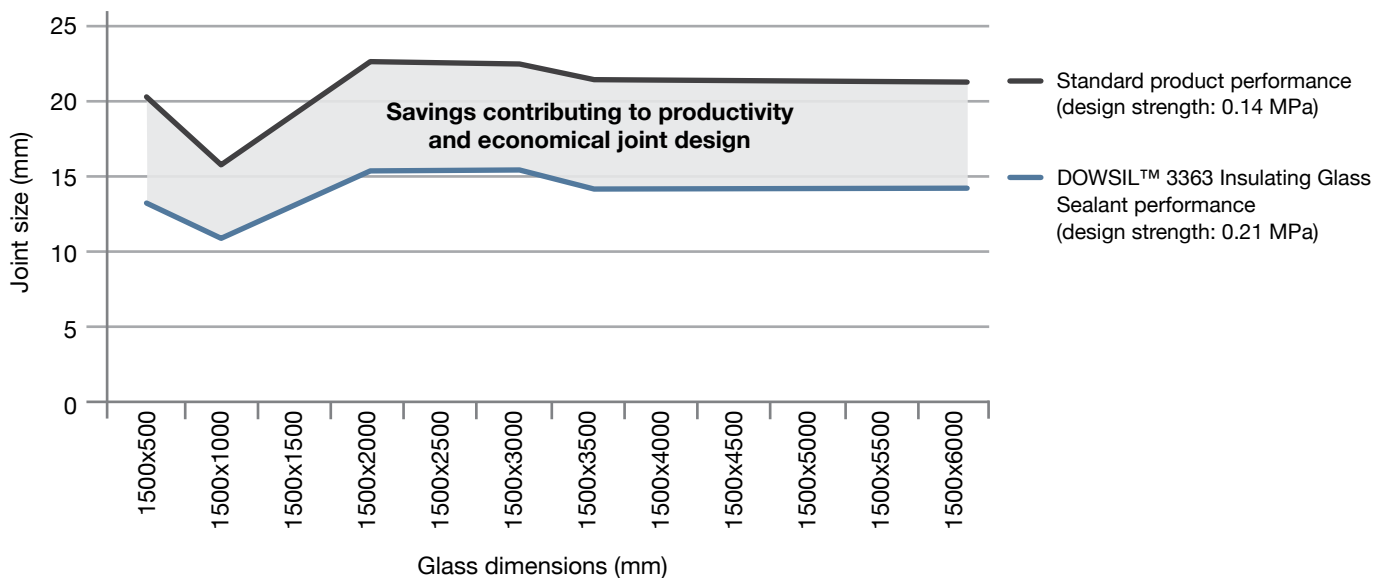
Because of the high design strength of 0.21 MPa, you can use up to 30% less sealant with DOWSIL™ 3363 Insulating Glass Sealant to achieve smaller, stronger joint edges. Higher strength joints also allow you to improve aesthetics and design options while contributing to better durability and energy efficiency over a building's lifespan. Additional benefits include:

- Up to 5% more light transparency
- Less than 1% gas loss over 25 years (EN 1279 part 3)
- Excellent service life
- Less thermal conductivity due to smaller joints
- Increased manufacturing productivity

Use up to 30% less sealant with DOWSIL™ 3363 Insulating Glass Sealant



Increase energy efficiency with thinner joints under extreme windloads



Build to withstand the elements

As a neutral curing silicone-based sealant DOWSIL™ 3363 Insulating Glass Sealant has outstanding adhesion to a wide range of substrates, including coated and reflective glasses, aluminum, stainless and galvanized steel spacers and a variety of plastics. Additional features include:

- Durable mechanical properties
- Excellent temperature stability: -50° to 150°C (-58° to 302°F)
- Odorless, non-corrosive cure
- Low water absorption
- Fast curing time

Meets industry specifications and expectations

Insulating glass units sealed with DOWSIL™ 3363 Insulating Glass Sealant consistently meet industry standards and requirements:

- European Technical Approval (ETA13/0359 - ETAG002)
- EN 1279, parts 2 and 3 for air- and gas-filled units
- EN 13022
- EN 15434
- Meets the requirements of CEKAL

Test*	Properties	Value/unit
	DOWSIL™ 3363 Insulating Glass Sealant Base	
	Color and consistency	Viscous white paste
	Specific gravity	1.38 g/ml
	DOWSIL™ 3363 Insulating Glass Sealant Curing Agent	
	Color and consistency	Thick black paste
	Specific gravity	1.05 g/ml
	Mixing ratio (Base:Curing agent)	
	By weight	10:1
	By volume	7.6:1
	Properties as mixed	
	Working time	5-10 minutes
	Snap time	10-30 minutes
	Specific gravity	1.36 g/ml
ISO 8339	Tensile strength	1.5 MPa
ISO 8339	Elongation at break	45%
ISO 868	Shore A hardness	60°
	Design strength, dynamic	0.21 MPa (ETA 002 approved)


*ISO: International Standardization Organization

For more information

Learn more about Dow's full range of High Performance Building solutions, including service and support, at dow.com/construction.

Dow has sales offices, manufacturing sites, and science and technology laboratories around the globe. Find local contact information at dow.com/contactus.

DOWSIL™

technologies by 



DOWSIL™ 3363 Insulating Glass Sealant is certified according to Passive House Component-ID 1410sp02



Dow High Performance Building website:
dow.com/construction



Contact Dow High Performance Building:
dow.com/customersupport

 Visit us on Twitter
[@DowHPBuilding](https://twitter.com/DowHPBuilding)

 Visit us on LinkedIn
[Dow High Performance Building](https://www.linkedin.com/company/dow-high-performance-building)

Images: dow_42973833788 (Photo courtesy of Columbus Centre Developer, LLC)

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2021 The Dow Chemical Company. All rights reserved.

2000009442

Form No. 63-1262-01-0321 S2D