



Technical Data Sheet

DOWSIL™ SJ668 Sealant

FEATURES

- Compliant to GB16776-2005 (Specifications of Silicone Structural Sealant for Buildings)
- Excellent adhesion to most common building substrates, such as glass, coated glass, reflective coatings, aluminum, and metals
- Outstanding temperature resistance: -50~150°C
- Good mechanical performance
- Fast curing
- Resistant to ozone and UV radiation

Two-part, neutral-cure adhesive/sealant with structural glazing capabilities

APPLICATIONS

- DOWSIL™ SJ668 Sealant is designed for use in structural applications such as factory glazing and curtainwall production.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications

Test Standard	Test Item	Unit	Value
As supplied - DOWSIL SJ668 Sealant Base			
	Color and Physical Form		Grey viscous paste
	Specific Gravity		1.36
As supplied - DOWSIL SJ668 Sealant, Curing Agent			
	Color and Physical Form		Thick black paste
	Specific Gravity		1.08
	Color and Physical Form		Clear paste
	Specific Gravity		1.00
After catalyzed and mixed:			
	Color and Physical Form		Black non-sagging paste
	Specific Gravity		1.34
	Color and Physical Form		Grey non-sagging paste
	Specific Gravity		1.32
	Corrosivity		Non-corrosive
CTM0092A ¹	Snap Time (25°C/77°F, 50%R.H.)	Min.	40 to 70
GB13477 ¹	Shore Hardness		40
14 Days after cure n(25°C, 50%R.H.) - Test on H-shaped Specimen			
GB13477	Tensile Strength (room temperature)	MPa	1.0
GB13477	Tensile Strength (90°C)	MPa	0.9
GB13477	Tensile Strength (-30°C)	MPa	1.3
GB13477	Tensile Strength (water immersion)	MPa	0.9

¹CTM: Corporate Test Method

GB13477: Chinese National Standard of Test Method for Building Sealing Materials

Test Standard	Test Item	Unit	Value
GB13477	Tensile Strength (water-UV)	MPa	0.8

DESCRIPTION

DOWSIL SJ668 Sealant is a two-part neutral cure silicone structural sealant, which is specially designed for the structural assembly of high-performance building curtain wall units.

STANDARD

Conform to GB16776-2005
Specifications of Silicone Structural Sealant for Buildings.

HOW TO USE

Instructions for Mix and Application

DOWSIL™ SJ668 Sealant Base and DOWSIL™ SJ668 Curing Agent shall be mixed at 10:1 base to curing agent by weight or 7.9:1 by volume to achieve optimal performance. The snap time may be adjusted by changing the base-to curing agent mix ratio from 9.1 to 11:1 by weight or 7.2:1 to 8.7:1 by volume without impacting the sealant physical properties.

This structural sealant is compatible with most of other DOWSIL™ neutral cure building sealants.

To obtain ultimate physical properties, DOWSIL SJ668 Sealant Base and Curing Agent should be thoroughly mixed using an airless mixing system. DOWSIL SJ668 Sealant is compatible with existing commercial two-part silicone dispensing equipment.

DOWSIL SJ668 Sealant Curing Agent may react with the moisture in the air. Therefore, it shall not be exposed to air for long time.

Equipment Cleaning

When the dispensing equipment is not used, please clean it with the base or flush it with appropriate cleaning solvent such as DOWSIL™ 3522 Concentrated Cleaning Solvent. If the sealant has cured in the equipment, it is suggested cleaning the equipment with DOWSIL 3522 Concentrated Cleaning Solvent in appropriate time. This solvent can be used repetitively for several times. It can dissolve the cured silicone sealant to provide optimal cleaning performance.

TECHNICAL SERVICE

Dow provides technical service support such as adhesion and compatibility test between the structural sealant and the component you select as well as blue print review and sealant bite calculation.

HANDLING

PRECAUTIONS

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.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 30°C in the original unopened containers, DOWSIL SJ668 Sealant has a shelf life of 14 months from date of manufacture.

PACKAGING INFORMATION

DOWSIL SJ668 Sealant Base and Curing Agent are supplied in kit. DOWSIL SJ668 Sealant Base is available in 250 kg iron drum, and the curing agent is available in 20 kg plastic pail.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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