



## Technical Data Sheet

### DOWSIL™ SE 9592 HT Sealant

One-part, neutral-cure RTV sealant; temperature resistant silicone adhesive/sealant.

#### Features & Benefits

- One-part, neutral cure silicone sealant; cures at room temperature upon exposure to moisture in the air
- May be used in applications with continuous exposure to 250°C and intermittent exposure to 300°C

#### Composition

- One-part, neutral-cure RTV sealant

#### Applications

The high temperature properties of this sealant make it ideally suited for:

- Sealing microwave oven window
- Sealing industrial ovens and boilers
- Sealing and encapsulating heating elements in appliances
- Other critical bonding, sealing, potting, encapsulating and protective coatings where parts must perform at high temperatures

#### Typical Properties

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

CTM <sup>1</sup>	ASTM <sup>2</sup>	Property	Unit	Result
<b>As supplied</b>				
0176		Appearance		Semi-flowable
		Color		Black
0098		Skin-over time	minutes	20
<b>Mechanical properties</b>				
0097B	D1475	Space gravity		1.20
		Durometer, JIS-A		29
0137A	D412	Tensile strength	MPa	1.5
0137A	D412	Elongation	%	250

1. CTM: Corporate Test Method, copies of CTM's are available on request.
2. ASTM: American Society for Testing and Materials.

## Description

DOWSIL™ SE 9592 HT Sealant is a one-part, semi flowable neutral cure RTV that cures to a rubbery solid at room temperature on exposure to water vapor in the air. This silicone product is formulated to perform at temperatures ranging from -50 to 250°C for continuous operation and to 300°C for intermittent exposure. It can be used for numerous sealing and bonding applications.

## How to Use

### Surface Preparation

All surfaces should be clean and dry before sealant application.

### Application

DOWSIL™ SE 9592 HT Sealant is supplied ready to use. Under pressure, it flows readily from its container. If needed, tool the sealant with light pressure to spread it against the substrate.

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

## Usable Life and Storage

Product should be stored at or below 32°C (90°F) in original, unopened containers.

## Limitations

DOWSIL™ SE 9592 HT Sealant is not recommended:

- For continuous water immersion
- In applications where excessive abrasion and physical abuse are encountered
- On materials that bleed oils, plasticizers or solvents; materials such as impregnated wood, oil-based caulks, and certain green or partially vulcanized rubber gaskets and tapes
- In totally confined spaces where the sealants is not exposed to atmospheric moisture
- On surfaces that will be painted; the paint film will not stretch with the extension of the sealant and may crack and peel

In confined cure conditions, DOWSIL™ SE 9592 HT Sealant may:

- Discolor brass, copper or other sensitive metals
- Stress craze polycarbonate

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, [consumer.dow.com](http://consumer.dow.com) or consult your local Dow representative.

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