



## Technical Data Sheet

# DOWSIL™ Z-6232 Silane

### FEATURES & BENEFITS

- Additives for EMC to afford moisture resistance
- Additives for glass cloth treatment for better wet-out
- Controlled chloride content

### COMPOSITION

- Reaction product of Benzaldehyde and (ethylenediaminepropyl)-trimethoxysilane
- Methanol

DOWSIL™ Z-6232 Silane can be used as additives for reinforced plastic composites.

### APPLICATIONS

- Glass treatment for Printed Circuit Board (PCB)
- Epoxy Molding Compounds (EMC)

### TYPICAL PROPERTIES

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

Property	Unit	Result
Appearance		Pale yellow to yellow liquid
Non Volatile Content	%	30-50 %
Refractive index		1.393-1.413
Chloride content	ppm	< 20
Electric Conductivity	μS/cm	< 60

The numbers above are typical values and are not specifications.

### DESCRIPTION

DOWSIL™ Z-6232 Silane is a reaction product of Benzaldehyde and (Ethylenediaminepropyl) trimethoxysilane in methanol solution. This product shows better heat stability in PCB application when use it as glass-cloth treating agent.

DOWSIL Z-6232 Silane can be used in EMC formulation to afford better anti-moisture performance and improved flowability.

### HOW TO USE

DOWSIL Z-6232 Silane can be used as glass-cloth treating agent. The silane can be diluted in 0.1 – 2.0 wt% aqueous solution (pH=4) prior to use. Glass cloth was immersed to the bath then dried at 130°C to afford silicone treated glass cloth.

DOWSIL Z-6232 Silane can be used for filler treatment. 1.0-5.0wt% of this product is mixed well in mixer (e.g. 2000 rpm for 3 minutes) then dried at 120°C for 3 hours to afford silicone treated silica.

## **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 in original, unopened container below 32°C, DOWSIL Z-6232 Silane has a shelf life of 15 months from date of manufacture. Opened containers should be tightly closed after use to prevent contaminants and water vapor from entering the product.

### **PACKAGING INFORMATION**

Please check availability with local Dow staff.

### **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](http://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.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

[www.consumer.dow.com](http://www.consumer.dow.com)



®Trademark of The Dow Chemical Company

UNRESTRICTED – May be shared with anyone

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

DOWSIL™ Z-6232 Silane

© 2017 The Dow Chemical Company. All rights reserved.