



## Technical Data Sheet

### VORASURF™ TF 1348 Additive

Silicone surfactant for production of HR (high-resiliency) molded polyurethane foam

#### Features & Benefits

- High foam cell stabilization
- Low odor

#### Composition

- Non-hydrolysable silicone surfactant

#### Applications

- Surfactant for TDI and TDI/MDI cold system HR molded polyurethane (PU) foam

#### Typical Properties

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

| Property          | Unit               | Result                          |
|-------------------|--------------------|---------------------------------|
| Appearance        |                    | Colorless to pale yellow liquid |
| Color             | APHA               | 20                              |
| Viscosity at 25°C | mm <sup>2</sup> /s | 500                             |
| Specific Gravity  |                    | 1.01                            |
| Calculated OH#    | mg KOH/g           | 33                              |

#### Table 1

Aldehydes contents in VORASURF™ TF 1348 Additive

|                            | Lot Number | Acetaldehyde (ppm) | Propionaldehyde (ppm) |
|----------------------------|------------|--------------------|-----------------------|
| VORASURF™ SZ-1346E Fluid   | H119L72004 | 0.2                | 7.8                   |
| VORASURF™ TF 1348 Additive | H119L93007 | 0.1                | 0.2                   |
| VORASURF™ TF 1348 Additive | H119L9D001 | 0.1                | 0.3                   |

**Table 2**

Aldehydes contents after aging at 50°C

|                                          | Aging (Month) | Acetaldehyde (ppm) | Propionaldehyde (ppm) |
|------------------------------------------|---------------|--------------------|-----------------------|
| VORASURF™ SZ-1346E Fluid<br>H119L72004   |               | 0.2                | 7.8                   |
|                                          | 2             | 0.2                | 7.6                   |
|                                          | 4             | 0.2                | 5.3                   |
|                                          | 6             | 0.6                | 7.2                   |
| VORASURF™ TF 1348 Additive<br>H119L9D001 |               | 0.1                | 0.3                   |
|                                          | 2             | 0.2                | 0.3                   |
|                                          | 4             | 0.4                | 0.3                   |
|                                          | 6             | 0.3                | 0.3                   |

**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 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 40°C (104°F) in the original unopened containers, this product has a usable life of 720 days from the date of production.

**Packaging  
Information**

This product available in 18 kg mini-drum and 200 kg drum.

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

**Disposal  
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## **Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

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dow.com

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