



VORASURF™ DC 193 Additive

Industry standard, general-purpose silicone surfactant for rigid and microcellular foams. Provides excellent flammability properties in rigid foams.

Applications

- Proven performance in most rigid foam applications: laminated panels, spray foam, pour-in-place systems, packaging and bunstock.
- Microcellular foam systems: footwear (shoe soles), integral skin.

Typical Properties

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

| Property | Unit | Result |
|--|----------|---------|
| Viscosity at 25°C | mPa.s | 305 |
| Calculated OH # | mg KOH/g | 75 |
| Specific Gravity at 25°C | | 1.08 |
| Water Solubility ¹ | | Soluble |
| Flash Point, Pensky-Martens Closed Cup | °C | 139 |

1. Based on 0.5 wt % solution measurements

How to Use

VORASURF™ 193 Additive is recommended for manufacturing rigid PU foam. Use levels for this type of foam can vary from 1 to 2 parts VORASURF™ 193 Additive per 100 parts polyol. The optimum surfactant loading should be defined for the particular foam formulation.

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 ambient temperature in the original unopened containers, VORASURF™ 193 Additive has a shelf life of 30 months from the date of production.

Packaging Information

VORASURF™ 193 DC Additive is available in pails or drums.

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 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.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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