

## AF9000NE Silicone Antifoam

### Description

AF9000NE antifoam is a 100% silicone compound that may be considered for use as an antifoam in many non-aqueous indirect food additive and industrial applications. AF9000NE silicone antifoam compound can provide excellent foam control in highly alkaline and highly acidic systems as well as neutral systems and typically exhibits improved efficiency and longevity over most conventional antifoam compounds.

### Key Features and Typical Benefits

- Advanced defoamer technology with improved efficiency over most conventional silicone antifoams.
- 100% silicone
- AF9000NE antifoam is compositionally compliant with several 21 CFR chapters as an indirect food additive
- Certified Kosher and Parve
- Halal Certified <sup>(1)</sup>

(1) This product is produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). This product is in compliance with the halal requirements under Islamic laws.

### Typical Physical Properties

Property	Value
Silicone/Silica Content, %	100
Density, g/cm <sup>3</sup>	1.02
Specific Gravity @ 25°C/77°F	1.01
Viscosity @ 25°C (77°F) cps	2500
Flash Point, Pensky-Martens Closed Cup ASTM D 93, °C	>204

Typical properties are average data and are not to be used as or to develop specifications.

### **Solubility**

Soluble in aliphatic, aromatic and chlorinated solvents. Typical solvents are toluene, xylene, mineral spirits, hexane, heptane, naphtha, methylene chloride, 1,1,1-trichloroethane, amylacetate, methylethylketone, 2-ethyl hexanol, ethyl ether and cyclohexane

### **Storage Stability**

Mild agitation should be employed prior to use to disperse solids uniformly.

### **Potential Applications**

AF9000NE silicone antifoam compound may be considered for use in the following applications:

- Adhesive manufacture
- Chemical processing
- Ink manufacture
- Paint manufacture
- Resin polymerization
- Formulating antifoam emulsions
- Insecticides/Herbicides
- Wool fats

### **Petroleum Processing**

- Gas scrubbing
- Glycol
- Vacuum tower unit
- Propane deasphalting
- Udex units

### **Food Processing**

- Corn oil manufacture

- Deep-fat frying
- Esterification of vegetable oil
- Fermentation
- Antifoam formulating
- Yeast processing

### **General Considerations for Use**

AF9000NE silicone antifoam compound may be used as received or diluted prior to use. Dilution or dispersion of the material prior to use, either in solvent or in one of the foaming ingredients can provide an excellent means for incorporating low concentrations of silicone antifoam accurately and economically into a non-aqueous system. Prediluted solutions should be kept under agitation or mildly agitated before use. Such dilution or dispersion may provide greater ease of handling and more effective use of silicone.

AF9000NE silicone antifoam compound may also be metered into continuous process systems.

When evaluating AF9000NE antifoam, it is suggested that evaluation be started at 10ppm silicone. This starting point represents an average level of silicone found to be effective in many applications. The level can then be adjusted in either direction to determine the minimum effective concentration for the specific system requiring foam control.

For applications related to food processing, consult applicable FDA or USDA regulations for the maximum permissible level of silicone.

### **Patent Status**

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### **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product

safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

**Contact Information**

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

**Telephone**

<b>Americas</b>	<b>Latin America</b>	<b>EMEAI- Europe, Middle East, Africa &amp; India</b>	<b>ASIA PACIFIC</b>
+1 800 295 2392 Toll free*	<b>Brazil</b> +55 11 4534 9650 Direct Number	<b>Europe</b> +390510924300 Direct number	<b>China</b> 800 820 0202 Toll free +86 21 3860 4892 Direct number
+704 805 6946 Direct Number	<b>Mexico</b> +52 55 2169 7670 Direct Number	<b>India, Middle East &amp; Africa</b> + 91 44 71212207 Direct number*	<b>Japan</b> +81 3 5544 3111 Direct number
*All American countries		<b>*All Middle Eastern countries, Africa, India,</b>	<b>Korea</b> +82 2 6201 4600

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