



## Fluid FF 170

### Product Description

Fluid FF 170 is a vinyl-terminated fluorosilicone copolymer, which is partially soluble in aromatic solvents such as toluene. Fluorosilicone fluids are generally used in antifoam applications where the dimethyl fluid products have failed. These are generally applications in the petroleum industry or where the system to be de-foamed contains aliphatic, aromatic or chlorinated solvents.

### Key Performance Properties

- Excellent antifoam for aliphatic, aromatic and chlorinated solvent systems in stirring, shearing, evaporation and distillation steps in the petroleum industry.
- Outstanding oil-gas separation properties in certain petroleum stocks in the oil and gas mining and processing industry.
- Lubricant for bearings and mechanical vacuum pumps.
- Base fluid for solvent resistant grease formulation.
- Resistant to most chemicals and oxidation reactions.
- Low surface tension.
- Low flammability due to high flash point.

### Typical Properties

| Test                                 | Unit                             | Result          |
|--------------------------------------|----------------------------------|-----------------|
| Physical Form                        | -                                | Pourable liquid |
| Silicone Content                     | %                                | 100             |
| Dyn. – Viscosity at 25°C (DIN 53019) | mm <sup>2</sup> ·s <sup>-1</sup> | 4000            |
| Refractive Index at 25°C             | -                                | 1.38            |
| Specific Gravity at 25°C             | g·cm <sup>-3</sup>               | ~1.1            |
| Flash Point                          | °C                               | 300             |

Table 1: Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Momentive performance materials.

### Applications

Fluid FF 170 has been developed for foam control in solvent systems where conventional polydimethylsiloxane fluids show no sufficient performance or promote foam for reasons of solubility. FF 170 is insoluble in chlorinated solvents and resistant to chemicals and oxidation. Due to the high effectiveness of FF 170 a pre dilution is recommended to improve the dosing accuracy. Suitable solvents for dilution are:

- Methyl ethyl ketone
- Acetone
- Isobutyl methyl ketone
- Or other low molecular weight esters and ethers.

These pre-delutes should be used within 4 weeks. Since some loss in performance might be observed upon longer storage. Suggested starting concentrations are between 1 – 5ppm.



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### Handling and Safety

**Caution:**

Upon exposure to air or other oxidative media above 150°C (302°F) toxic vapours may be evolved from Fluid FF 170 due to decomposition. Therefore, ensure adequate ventilation and instruction procedures if temperatures are likely to exceed this point. Below temperatures of 150°C (302°F) the fluid is essentially non-toxic.

According to the 6th Amendment to EC Directive 67/548 on the classification, packaging and labelling of dangerous substances (79/831/EC) FF 170 is not subject to legal labelling requirements. It is not classified as dangerous cargo. It is sensitive to frost below 0 °C and should be kept away from food, drink and tobacco.

The product safety information is not included in this datasheet. When handling chemicals, proper safety precautions must be observed and suitable personal protection equipment shall be used. Prior to handling this product it is required to consult the technical and safety data sheets and container labels for safe use. Safety Data Sheets are available via our web page or upon request at Momentive performance materials.

Similar information for solvents and other chemicals recommended in this data sheet should be obtained from the respective suppliers.

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### Packaging

Fluid FF 170 is available in 227 kg drums (500 lbs) and 18.2 kg pails (40 lbs).

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### Availability

Products may be ordered from Momentive performance materials, the Momentive performance materials Sales office nearest you or where appropriate, an authorized Momentive performance materials Silicone product distributor. Contact information is supplied on the last page of this datasheet.



PRINCIPAL LOCATIONS – Regional Information

|  |   |   |                    |
|--|---|---|--------------------|
| North America                            | World Headquarters<br>187 Danbury Road<br>Wilton, CT 06897, USA           | T 800.295.2392                          | F 607.754.7517     |
| Latin America                            | Rodovia Eng. Constâncio Cintra,<br>Km 78,5                                | T +55.11.4534.9650                      | F +55.11.4534.9660 |
| Europe, Middle East,<br>Africa and India | D-51368 Leverkusen<br>Germany   | T 00.800.4321.1000<br>T +31.164.293.276 | F +31.164.241.750  |
| Pacific                                  | Akasaka Park Building - 5-2-20 Akasaka<br>Minato-ku, Tokyo 107-6112 Japan | T +81.3.5544.3100                       | F +81.3.5544.3101  |

CUSTOMER SERVICE CENTERS

|  |  |   |  |
|--|--|---|--|
| North America                            | Charleston, WV 25314, USA<br>E <a href="mailto:cs-na.silicones@momentive.com">cs-na.silicones@momentive.com</a>  |   |  |
|  | <ul style="list-style-type: none"> <li>Specialty Fluids</li> <li>UA, Silanes, Resins, and Specialties</li> <li>RTV Products-Elastomers</li> <li>Sealants and Adhesives &amp; Construction</li> </ul> | T 800.523.5862<br>T 800.334.4674<br>T 800.332.3390<br>T 877.943.7325                        | F 304.746.1654<br>F 304.746.1623<br>F 304.746.1623<br>F 304.746.1654                 |
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| Europe, Middle East,<br>Africa and India | E <a href="mailto:cs-eur.silicones@momentive.com">cs-eur.silicones@momentive.com</a>   | T 00.800.4321.1000<br>T +31.164.293.276   | F +31.164.241750   |
| Pacific                                  | E <a href="mailto:cs-ap.silicones@momentive.com">cs-ap.silicones@momentive.com</a>   |   |  |
|  | <ul style="list-style-type: none"> <li>Japan</li> <li>China</li> <li>Korea</li> <li>Singapore</li> </ul>   | T +81.276.20.6182<br>T +86.21.5050.4666 (ext. 1523)<br>T +82.2.6201.4600<br>T +65.6220.7022 |  |
| Worldwide Hotline                        | Worldwide Web<br><a href="http://www.momentive.com">www.momentive.com</a>  | T 800.295.2392<br>T +607.786.8131   | F +607.786.8309  |

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