



MOLYKOTE[®] Silicone Brake Fluid

Silicone-based DOT 5 brake fluid

Features

- Meets Federal Motor Vehicle Safety Standard (FMVSS) 116 DOT 5
- Meets MIL-PRF-46176B specification
- Extreme high- and low-temperature performance, which translates to consistent brake performance and reduced brake fade
- Low water-absorbing performance over lifetime of the fluid; resists corrosion due to low water content and anti-corrosion additives
- Excellent compatibility with braking system components, including polymers, elastomers and paints
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Polydimethyl siloxane
- Performance additives

Applications

MOLYKOTE[®] Silicone Brake Fluid is used in high-performance braking systems, including high-performance vehicles, racing vehicles, motorcycles, and some military vehicles, and for applications that require FMVSS 571.116 DOT 5 or conformance to MIL-PRF-46176B specification.

Description

MOLYKOTE[®] Silicone Brake Fluid is a polydimethylsiloxane fluid fortified with performance additives to meet FMVSS 571.116 DOT 5 designation and MIL-PRF-46176B specification.

How to use

Due to the chemical inertness of silicone fluids, the purple dye can settle to bottom of container resulting in a yellow to amber tone. Mixing or agitation of container may be required to redisperse purple dye prior to down packaging or dispensing. Material should be used in new systems or as designed by OE. Material is not to be mixed with other brake fluid chemistries.

Handling precautions

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE[®] sales representative prior to writing specifications on this product.

| Standard | Test | Unit | Result |
|----------|---|----------------------|--------|
| 5.1.1 | Equilibration reflux boiling point (ERBP) | °C | > 260 |
| 5.1.2 | Wet equilibration reflex boiling point | °C | > 260 |
| | Vapor lock temperature | °C | > 260 |
| 5.1.3 | Kinematic viscosity | | |
| | @ -40°C | mm ² /sec | 115 |
| | @ 100°C | mm ² /sec | 6 |
| 5.1.16 | Corrosion metal strip – weight loss | | |
| | Steel, tinned iron, cast iron | mg/cm ² | 0.01 |
| | Aluminum | mg/cm ² | 0.01 |
| | Brass, copper | mg/cm ² | 0.01 |
| 5.1.14 | Color | | Purple |
| | Specific gravity @ 25°C | | 0.95 |

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

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 60 months from the date of production.

Packaging

This product is available in 18 kg pails, 195 kg drums and 950 kg IBCs. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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