



Mobil System Cleaner

Circulating System Cleaner

Product Description

Mobil System Cleaner is an oil-soluble, solvent-free cleaner that contains emulsifiers, dispersants, and rust inhibitors. It is safe for use with all ferrous and non-ferrous metals used in industrial equipment. A 5% concentration of Mobil System Cleaner in the system oil is typically recommended. The product is compatible with common seals up to 20% maximum concentration in the oil. Because of the viscosity and high flash point of Mobil System Cleaner, equipment can be operated normally during the cleaning process.

Features and Benefits

- Solvent-free, oil-soluble cleaner
- Highly recommended for removing varnish, carbon, sludge, and other contaminants from circulating lubrication systems, bearings, etc.
- Safe for use with all ferrous and non-ferrous metals
- Compatible with common seals up to 20% maximum concentration
- Equipment can operate normally during cleaning process

Applications

Cleanliness in circulating lubrication systems e.g., paper machines and turbines is essential to adequate cooling and lubricant flow rates, as well as to lubricant and bearing life. It is advisable to clean circulating lubrication systems that have been in use for extended periods in order to remove accumulations of varnish, carbon, sludge, or other process contaminants from the oil supply and return lines, bearings and other elements of the lubrication system. Cleaning may also be required before installing a new charge of lubricating oil or when a new brand of lubricant is being introduced to the system.

Note: To prevent contamination of Mobil System Cleaner, it should be kept in closed containers. Drums of the product should be stored on their sides.

Procedures for using Mobil System Cleaner: Mobil System Cleaner should be used in accordance with the procedures below. Before beginning the process, the user should consult with their sales representative.

Note concerning filters and filtration: Extra filters will be required to handle the quantity of varnish and other deposits expected to be removed from the system. Filters should be changed immediately before adding Mobil System Cleaner to prevent the cleaner from breaking up the material already in the filters and dispersing it back into the system. The filters also should be changed before adding the flushing oil and/or before adding the final fill. In the course of the cleaning procedure, be prepared to change the filters several times per day.

1. Add Mobil System Cleaner to the reservoir at a 5% concentration in the oil while the system is operating at normal speed and temperature. The system should be operated at least 24 hours with this mixture. Your sales representative can advise you on the exact length of time, which is dependent on system size and current cleanliness.
2. After Mobil System Cleaner has circulated for the recommended time, drain the system immediately. Draining the oil quickly will maximize the amount of suspended insolubles and removed with the oil and will reduce the need to clean the sump manually. Any auxiliary reservoirs, secondary sumps, large bearings with drain cocks, etc. should also be drained at this time.
- 3.

Flush the system with an approved flushing oil. Consult your sales representative if in doubt about the oil to be used for flushing.

4.

If the volume of oil and cleaner remaining in the system after flushing and draining is 10% or less of the system volume, a second flush will not be necessary. If the amount is more than 10%, or if there is uncertainty about the amount, the system should be flushed again.

5.

If a second flush is indicated, fill the system with an approved flushing oil or the recommended long-term lubricant up to the level where oil circulation can be achieved. Circulate the system at normal operating temperatures at least five times, then drain according to Step 2 above.

6. When the flushing phase is complete, fill the system with fresh lubricant of the appropriate viscosity grade.

Typical Properties

| Mobil System Cleaner | |
|-------------------------------|-----------------|
| Appearance | Clear brown oil |
| Specific gravity, ASTM D 1298 | 0.926 |
| Weight, lb/gal | 7.71 |
| Viscosity, ASTM D 445 | |
| cSt @ 40 °C | 55 |
| Flash Point, °C (°F) | 138 (280) |
| Odor | Mild |

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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