



EXXON SYSTEM CLEANER

Circulating System Cleaner

Product Description

EXXON 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 EXXON SYSTEM CLEANER in the system oil is typically recommended. The product is compatible with all seals up to 20% maximum concentration in the oil. Because of the high viscosity (ISO 100) and high flash point of EXXON SYSTEM CLEANER, equipment can be operated normally during the cleaning process.

Features & 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 all 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 EXXON SYSTEM CLEANER, it should be kept in closed containers. Drums of the product should be stored on their sides.

PROCEDURES FOR USING EXXON SYSTEM CLEANER

EXXON 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 EXXON 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.

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Add EXXON 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 EXXON 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

EXXON SYSTEM CLEANER	
Appearance	Clear, amber liquid
Specific gravity, ASTM D 287	0.95
Weight, lb/gal	7.87
ISO viscosity, ASTM D 2422	100
Viscosity, ASTM D 445	
SSU @ 100°F	468
SSU @ 210°C	56.7
Viscosity Index	68
Flash Point, °C (°F)	157 (315)
Odor	Mild
Total acid number, ASTM D 974	10

Health & Safety

Health studies have shown that many petroleum and synthetic-base hydrocarbons pose potential human health risks that may vary from person to person. As a precaution, exposure to liquids and vapors of such products should be minimized.

EXXON SYSTEM CLEANER will cause eye irritation. If this product contacts the eyes, immediately flush the eyes with plenty of fresh water. Call a physician.

Prolonged or repeated contact of oils and greases with the skin may cause an allergic skin reaction, such as a rash, in certain individuals. Such contact also can result in removal of skin oils and plugging of sweat glands and hair follicles. This may lead to skin irritation or dermatitis. Accordingly, oils and greases should be removed from the skin promptly. Soiled clothing should not be allowed to remain in contact with the skin. EXXON SYSTEM CLEANER can be removed from the skin by waterless hand cleaners, followed by

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washing with soap, water, and a soft skin brush. Soiled clothing should be laundered or dry-cleaned. Where repeated skin contact occurs, protective creams, such as silicone-base creams, applied to clean hands prior to contact may be beneficial.

WARNING: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove, and even a trace of remaining material constitutes an explosive hazard. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Additional important health and safety information on this product can be found in the Material Safety Data Sheet which is available online at www.exxon.com or by contacting Exxon Branded Lubricants, ExxonMobil Lubricants & Petroleum Specialties Company, North America Technical Services - MSDS, 3225 Gallows Road, Fairfax, VA 22037.

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