

Shell TORCULA® Fluids DE

High quality synthetic oil mist lubricants

Shell TORCULA® Fluids DE are fully formulated, high quality synthetic oil mist lubricants based on diester technology to enhance low temperature properties and prevent the formation of wax and other deposits which may plug oil mist application fittings when mineral oil based lubricants are used.

Performance Features and Benefits

- Synthetic products based on diester technology
- Excellent surface-wetting characteristics
- Excellent thermal and oxidation stability
- Reduced component wear
- Excellent deposit control
- Minimal plugging tendencies
- Rust and corrosion resistance

Main Applications

Shell TORCULA® Fluids DE series has been designed to meet the lubrication requirements of many oil mist lubrication systems operating in adverse conditions, particularly low temperature applications. Since synthetic fluids do not contain wax, this eliminates problems due to wax plugging, which can occur with mineral oils or mineral oil products.

The Shell TORCULA® Fluids DE products can be used in oil mist systems, hydraulic applications, and general industrial applications where synthetic products with outstanding low temperature and oxidation properties are required.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

Specifications, Approvals, and Recommendations

- Oil mist lubrication applications under severe conditions
- Where EP properties are not required in hydraulic systems and for general industrial lubrication systems, including gears

Product Maintenance

Shell TORCULA® Fluids DE lubricants are compatible with conventional non-detergent petroleum oils, although mixing could reduce the performance of the synthetic lubricant. After converting from mineral oil based lubricants, it is suggested that the oil mist lubrication system be watched closely. Diesters have excellent solvency and will aggressively "clean-up" system deposits that might have formed while mineral oil based lubricants were in use. Therefore oil filters need to be monitored frequently in the early stages after conversion to these type products.

Please note: Shell TORCULA® Fluids DE lubricants may or may not be compatible with seals, paints, plastics, etc. found in systems designed for petroleum oils. When there is any doubt regarding the compatibility of system components with these diester-based lubricants, the equipment manufacturer should be consulted.

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

Shell TORCULA® Fluids DE	Test Method	32	68
Appearance	Clear		
Gravity, °API	D 1298	21.3	17.5
Autogenous Ignition Temp, °F	D 2155	745	780
Flash, COC, °F	D 92	450	480
Pour Point, °F	D 5949	-60	-35
Viscosity			
@ 40 °C, cSt	D 445	29.0	69.0
@ 100 °C, cSt	D 445	5.5	7.7
Viscosity Index	D 2270	129	66
Coefficient of Thermal Expansion (vol/vol), per °F		0.00026	0.00023

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.