



VISCOSITY

Product Data Sheet

Revised: 2020/12/09 (version 8)

VISCOSITY TUTELA Hydraulic Fluid ISO 32,46 & 68

Engineered with Fluid Technology Solutions™, our expertly designed formulation provides high performance and an extended protection for your off-road equipment.

Your number one priority is making sure your off-road equipment is always on the move. It's the engine of your business! When your equipment operated in the most extreme conditions - it requires strong wear protection and reliability under heavy loads.



Description and Applications

VISCOSITY TUTELA Hydraulic Fluid 32, 46 & 68 are universal anti-wear hydraulic oils providing enhanced wear protection *to keep your work in fluid motion.*



Wear
Protection



Rust &
Corrosion
Protection

VISCOSITY TUTELA Hydraulic Fluid 32, 46 & 68 have been designed for use in hydraulic oil systems requiring oxidation resistance, rust prevention, anti-wear, and anti-foam additive technology. Provides longer equipment life by reducing wear, sludge & varnish formation, provides rust and corrosion protection reducing maintenance time and cost.

Benefits

VISCOSITY TUTELA Hydraulic Fluid 32, 46 & 68 enhance your business profits and your vehicle availability while significantly reducing your operating costs through:

- **Enhanced wear protection** generating reliable operation, even in equipment exposed to heavy loads.
- **Excellent foam resistance** helping to reduce the friction between surfaces and extending the life of your equipment.
- **Good fluid cleanliness** preventing premature filter clogging and **reduces risk of cavitation.**
- **Improved corrosion protection** against rust formation, helping to prevent premature damage in equipment surfaces.

Approvals, Specifications and Recommendations

VISCOSITY TUTELA Hydraulic Fluid 32, 46 & 68 are universal fluids solution engineered with industry-leading shear stability that meets below performances:

- | | |
|----------------------------|---------------------------|
| • MAT 3508 | • DIN 51524 II |
| • Denison HF-0, HF-1, HF-2 | • GM LS-2 |
| • Bosch RDE 90240 | • US Steel 126, 127 & 136 |
| • CM P-68, P-69, P-70 | • SAE MS1004 HM |
| • ISO 11158 HH, HL, & HM | • ASTM D6158 HM |

Note: Always consult your owner's manual to check recommended fluid and specifications for your specific vehicle/equipment

Typical Physical Data

Parameters	Method	Unit	Typical Value		
			ISO 32	ISO 46	ISO 68
Kinematic Viscosity @40C	ASTM D445	cSt	32	46	68
Kinematic Viscosity @100C	ASTM D445	cSt	5.8	6.8	8.8
Viscosity Index	ASTM D2270		110	105	105
Pour Point	ASTM D97	°C	-42	-39	-39
Brookfield Viscosity @-20C	ASTM D2983	cP	1750	3300	7200
Flash Point	ASTM D92	°C	210	230	235
Rust Test	ASTM D665A		No Rust	No Rust	No Rust
Rust Test (Synthetic Sea Water)	ASTM D665B		No Rust	No Rust	No Rust
Density	ASTM D1298		0.87	0.868	0.863

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to VISCOSITY's specification, variations in these characteristics may occur.

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.viscosityoil.com

Important Note

VISCOSITY Documents and the information contained herein is believed to be accurate as of the date of printing. VISCOSITY Documents information provided is based on standard tests under laboratory conditions and is given only as a guide. Users are advised to ensure that they refer to the latest version of these VISCOSITY Documents. It is the responsibility of the users to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations imposed by the respective local authorities.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either VISCOSITY or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortious action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.