

Product Data Sheet

Revised: 2020/12/09 (version 8)

VISCOSITY TUTELA PREMIUM Hydraulic Fluid 46HV Xtra Duty

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 operates in the most extreme conditions - it requires protection in all seasons while maintaining comfortable handling and maximum hydraulic efficiency.

Description and Applications

VISCOSITY TUTELA PREMIUM Hydraulic Fluid 46HV Xtra Duty is a top tier anti-wear hydraulic oil providing outstanding wear protection and water handling performance *to keep your work in fluid motion.*



Severe Duty
Protection



Fuel
Economy



Wear
Protection



Rust &
Corrosion
Protection

VISCOSITY TUTELA PREMIUM Hydraulic Fluid 46HV Xtra Duty has been designed for high pressure hydraulic systems providing viscosity stability, essential to optimum machine performance over a wide temperature range.

Benefits

VISCOSITY TUTELA PREMIUM Hydraulic Fluid 46HV Xtra Duty enhances your business profits and your vehicle availability while significantly reducing your operating costs through:

- **Outstanding wear protection** generating reliable operation, even in equipment exposed to heavy loads at high pressures.
- **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.**
- Outstanding water handling allowing flexibility for **wider operation conditions.**
- **Enhanced corrosion protection** against rust formation and deposits, helping to prevent premature damage in equipment surfaces.
- **Exceptional viscosity control** in a wide range of environmental and operational temperatures

Approvals, Specifications and Recommendations

VISCOSITY TUTELA PREMIUM Hydraulic Fluid 46HV Xtra Duty is a universal fluid solution engineered with industry-leading shear stability that meets below performances:

Approvals and Specifications:

- MAT 3509
- Denison HF-0, HF-1, HF-2
- Bosch RDE 90240
- CM P-70
- ISO 11158 HH, HL, HM & HV
- DIN 51524 II/III
- GM LS-2
- US Steel 126, 127 & 136
- SAE MS1004 HV
- ASTM D6158 HV

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

Typical Physical Data

Parameters	ASTM Method	Unit	Typical Value
Kinematic Viscosity @40°C	ASTM D445	cSt	46
Kinematic Viscosity @100°C	ASTM D445	cSt	8.8
Viscosity Index	ASTM D2270		175
Pour Point	ASTM D97	°C	-50
Brookfield Viscosity @-30°C	ASTM D2983	cP	7250
Brookfield Viscosity @-40°C	ASTM D2983	cP	35000
Flash Point	ASTM D92	°C	200
Rust Test	ASTM D665A		Pass
Rust Test (Synthetic Sea Water)	ASTM D665B		Pass
Density	ASTM D1298		0.867

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 tortuous 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.