

FUNCTIONAL HF-500

ADDITIVE FOR VEGETABLE BASED HYDRAULIC FLUID

APPLICATION:

FUNCTIONAL HF-500 is an additive package for making hydraulic fluids based on vegetable oils, rather than on petroleum oils, for situations where lower effect on the environment is important. **FUNCTIONAL HF-500** provides oxidation and corrosion protection, extreme-pressure / anti-wear activity and resistance to water.

COMPOSITION:

The components of **FUNCTIONAL HF-500** are tailored to the particular needs of the vegetable oil diluent. It contains neither phenols nor substances that give a positive EPA phenol test.

Typical properties	
Appearance	Dark liquid
Odor	Mild sulfurous
Specific Gravity	0.98
Lbs per Gallon	8.2
Flash Point	135°C (275°F)
Kinematic Viscosity	20 cSt at 100°C 240 cSt at 40°C

TREATMENT LEVEL:

FUNCTIONAL HF-500 is used at 3.5% by weight. The viscosity of the hydraulic fluid may be adjusted with a thickener such as **FUNCTIONAL V-516**. A cold-flow improver such as **FUNCTIONAL PD-551** may extend the service temperature range.

HANDLING:

Use normal procedures for handling or blending **FUNCTIONAL HF-500**. Cold storage may lead to slight separation of the product but warming it to 25°C (77°F) will make **HF-500** homogenous again. Review the current material safety data sheet before using. The service life of the hydraulic fluid is limited by the stability of the vegetable oil, so a maximum temperature of 70°C (160°F) is recommended.

This Technical Data Sheet and the Material Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.

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