

QUALITY PROTECTS.

QUALITY WORKS.

LANXESS
Energizing Chemistry

Naugalube® 750

Butylated, octylated diphenylamine antioxidant

LANXESS is one of the leading manufacturers of alkylated diphenylamine antioxidants (ADPA) which meet the challenging and ever evolving requirements of industrial and transportation lubricant standards.

Naugalube® 750 is a liquid antioxidant for use in a broad range of industrial and transport lubricants. It offers excellent protection against high temperature oxidation and lubricant

degradation in mineral and synthetic based fluids providing superior performance when formulated in Group II, III and IV formulations. Typical treat levels may range between 0.05% and 1.0%. Naugalube® 750 can also be used in conjunction with other Naugalube® antioxidants such as alkylated diphenylamines, alkylated phenyl- α -naphthylamine and/or hindered phenolics.

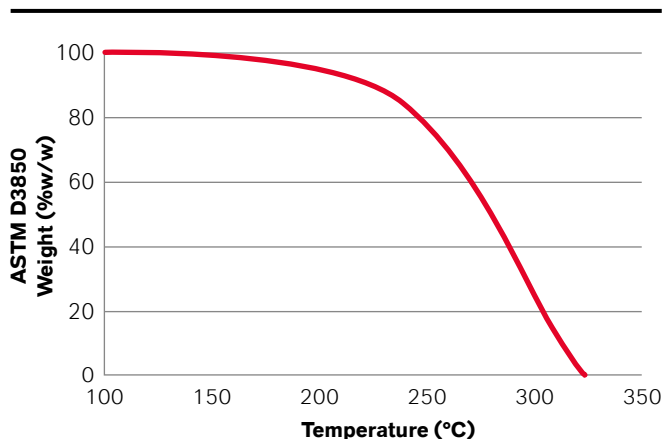
Applications

| Industrial | | | | | | Marine | | Aviation | | Automotive | | | | Grease | | |
|---|-------------|---------------|-------------------|-----------|----------------|-------------------------|------------|-------------|---------------|---------------------|-------------------|-------------------------------|--------------------|-------------------|-------------------|-----------------|
| Gear oil | Turbine oil | Hydraulic oil | Heat transfer oil | Chain oil | Compressor oil | Trunk piston engine oil | System oil | Turbine oil | Hydraulic oil | Gasoline engine oil | Diesel engine oil | Auto transmission fluid (ATF) | Differential fluid | Automotive grease | Industrial grease | Aviation grease |
| ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ■ Primary recommendation ■ Alternative recommendation | | | | | | | | | | | | | | | | |

X Naugalube® 750

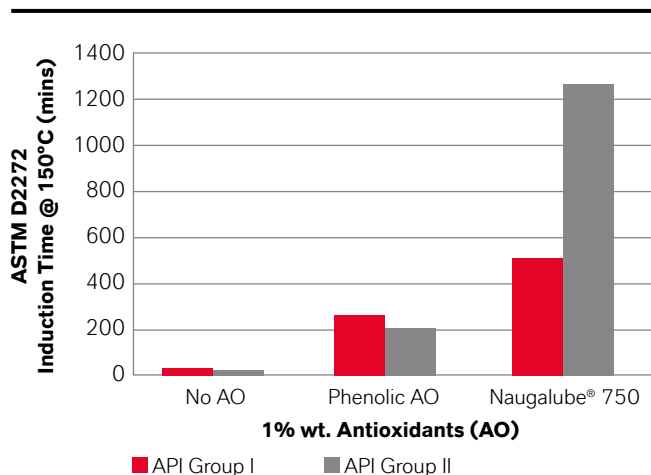
| Features | Benefits |
|--|---|
| Liquid antioxidant | Provides easy handling and blending |
| US FDA 21CFR178.3750 approved, Kosher and Halal certified | NSF HX-1 approval for use in lubricants subject to incidental food contact at a maximum level of 0.5% |
| Excellent high temperature performance providing effective control against viscosity increase, deposit formation and sludging tendency | Prolongs lubricant life and extended service intervals |
| Mixed alkyl groups for maximum oil compatibility | Excellent solubility and stability in finished lubricants |
| High nitrogen and total base number | Maximizes antioxidant efficiency and provides added alkalinity |

TGA profile of Naugalube® 750



Additive volatility can influence lubricant performance characteristics. Thermogravimetric analysis (TGA) of Naugalube® 750 demonstrates its excellent thermal and oxidative stability.

Turbine oil oxidation stability by RPVOT



RPVOT (Rotating Pressure Vessel Oxidation Test) performance testing shows superior antioxidant properties performance over the phenolic antioxidant in both Group I and Group II turbine oil formulations with a clear and significant performance boost achieved with Naugalube® 750 in the Group II based oil.

Shipping information: tank cars, tank trucks, and non-returnable drums

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Unless specified to the contrary, the values given have been established on standardized test specimens. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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