

IRGALUBE® 349

Extreme pressure / antiwear additive

July 2021

Data Sheet EVO

Replaced Version August 2019

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® = registered trademark of BASF SE

Description

IRGALUBE 349, a mixture of amine phosphates, is an ashless multi-functional additive with extreme pressure / antiwear and antirust activity

Benefits and Features

- Provides multifunctional performance as EP/AW additive and corrosion inhibitor
- Improves FZG performance of lubricants
- Approved by FDA/USA for use in blending lubricants with incidental food contact
- Demonstrates EP/AW synergism with Irgalube TPPT
- Improves frictional characteristics of lubricants and greases
- Easy to handle liquid, contains no diluents

Properties

Appearance

Clear, viscous, colorless to yellow liquid

Physical and Chemical Data

Density at 20 °C 0.92 g/cm³
Viscosity at 40 °C 2200 mPa.s
Flash point 135 °C, Pensky-Martens
Phosphorus content 4.8 %
Nitrogen content 2.7 %

Quality Control

The above-listed data represent average values at the time of going to press of this Technical Information. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification

Solubility

Water < 0.01 %
Mineral oil 3 %

Application

Typical treat rates

Industrial lubricants	0.1 – 0.5 %
Grease	0.3 – 1.0 %
Metal working fluids, especially rolling oils	0.3 – 1.0 %
Engine oils and power transmission fluids	0.2 – 0.5 %
Synthetic and partial synthetic lubricants	0.5 – 1.0 %
Lubricants with incidental food contact	0.1 – 0.5 %

Restriction	Not recommended when calcium compatibility of lubricant is required May adversely affect structure of complex greases Solubility in PAGs should be carefully checked, in some PAGs gel formation occurs Good hydrolytic stability can be obtained by using correct treat levels
Storage and Handling	Please read Material Safety Data Sheet (MSDS) before handling.
Packaging	This information is available on request through our local representative.

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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