

FUNCTIONAL V-422 TACKIFIER for FOOD GRADE LUBRICANTS

APPLICATION:

FUNCTIONAL V-422 is an additive that confers a tack or stringiness to a lubricant. It is used to provide adherence in fluid lubricants and stringiness in greases. **FUNCTIONAL V-422** is approved as a component in FDA/USDA Classification H-1 (21 CFR 178.3570) for lubricants with incidental food contact. For non-food-grade applications, we recommend **FUNCTIONAL V-178** or, where superior thermal and shear stability are needed, **FUNCTIONAL V-188**.

COMPOSITION:

The active polymeric ingredient in **FUNCTIONAL V-422** is an FDA-approved polyisobutylene. The diluent oil is an FDA-approved white mineral oil.

Typical properties	
Specific Gravity	0.84
Lbs per Gallon	7.00
Flash Point (COC)	150 °C (300 °F)
Kinematic Viscosity	2,300-3,800 cSt at 100 °C
Color	water-white

TREATMENT LEVEL:

Typical treatment levels are 0.5-1.5% in fluid lubricants and up to 2.5% in greases, where shear and high temperatures may be encountered during processing. Since tackiness and stringiness are subjective properties that lack standardized test methods, and since like other polyisobutylene tackifiers, **FUNCTIONAL V-422** is subject to degradation by shear and heat. The required treatment level is best determined by experimentation by the user.

HANDLING:

Due to the viscosity of **FUNCTIONAL V-422**, elevated temperature (approximately 150°F) can facilitate handling. Temperatures over about 200°F may lead to degradation of tackiness and viscosity. In greases, we recommend adding **FUNCTIONAL V-422** last, to minimize shear degradation during milling. Safe handling precautions are the same as those to be taken with the base oil; see the current Material Safety Data Sheet.



Nonfood Compounds
Program Listed
Category Codes: HX-1 and HX-2
Registration No. 120906

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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