

FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

Technical Data Sheet

FUNCTIONAL V-172 TACKIFIER

APPLICATION:

FUNCTIONAL V-172 is an additive that confers a tack or stringiness to a lubricant. It may be used to provide adherence in way oils and chain lubricants, stringiness in greases, and aerosol resistance in mist and pneumatic-system lubricants. Lubricants made with **FUNCTIONAL V-172** are more resistant to clogging of filters which results in improved filterability and production time savings. Slideway lubricants made using **FUNCTIONAL WA-64** and up to 0.5 wt% **FUNCTIONAL V-172** in a suitable basestock pass the Bijur filterability test.

COMPOSITION:

The active polymeric ingredient in **FUNCTIONAL V-172** is a polyisobutylene long-used in tackifiers. The diluent oil in **FUNCTIONAL V-172** is light-colored paraffinic oil that does not require hazard labeling.

| Typical Properties | |
|---------------------|---------------------------------|
| Specific Gravity | 0.86 |
| Lbs per Gallon | 7.10 |
| Flash Point | 175°C (350°F) |
| Kinematic Viscosity | 3,750 – 4,250 cSt at 100°C |
| Color | Yellow-orange (<4 ASTM) |
| Filterability | Passes Bijur Filterability test |

TREATMENT LEVEL:

A starting treatment level for a way lube is 0.3-0.5 wt%. For chain lubes the treatment range is 0.6% to 1.8%. Minimization of hydrocarbon aerosol escape from mist-lubricated and pneumatic equipment requires about 0.5-1% in the mist oil. The best treatment level for greases and lubricants for the intended application is to be determined by the formulator.

HANDLING:

Due to the viscosity of **FUNCTIONAL V-172**, elevated temperature (about 150°F (65°C) can facilitate handling, but temperatures over 200°F (95°C) should be avoided. Where higher temperatures are encountered, **FUNCTIONAL V-188** tackifier is recommended. Safe handling precautions are the same as those to be taken with the base oil; see the current Safety Data Sheet. The tackiness of the resulting lubricant can be lessened by shearing, so mechanical shearing during blending and handling should be minimized.

This Technical Data Sheet and the 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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