FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

Technical Data Sheet

FUNCTIONAL V-176

TACKIFIER

APPLICATION:

V-176 is an additive that confers tack or stringiness to a lubricant. It is used to provide adherence in way oils and chain lubricants, stringiness in greases, and aerosol resistance in mist or pneumatic system lubricants. Diluted versions of **V-176** are available for lower viscosity and easier handling.

COMPOSITION:

The active polymeric ingredient in **V-176** is a polyisobutylene commonly used in tackifiers. The diluent oil in **V-176** is light colored paraffinic oil that does not require hazard labeling.

Typical Properties	
Specific Gravity	0.86
Lbs per Gallon	7.10
Flash Point	230°C (446°F)
Kinematic Viscosity	2,500 – 3,300 cSt at 100°C
Color	< 3.0 ASTM D1500

TREATMENT LEVEL:

A starting treatment level for a way lube is 0.5%. For chain lubes, the treatment range is 0.5% to 1.5%. Minimization of hydrocarbon aerosol escape from mist lubricated and pneumatic equipment requires about 1.0% in the mist oil. The treatment level for greases must be determined by the formulator. Since there are no standardized test methods for these properties, the required treatment level is determined by the user.

HANDLING:

Due to the viscosity of **V-176**, elevated temperature about 150°F (65°C) can facilitate handling, however temperatures over 200°F (95°C) should be avoided. Where higher temperatures are encountered, **FUNCTIONAL V-188** is recommended. Safe handling precautions are the same as those used with the base oil; see the current Safety Data Sheet. The tackiness of the resulting lubricant can be decreased by shearing, so mechanical shearing during blending and handling should be minimized.

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