

# FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

## Technical Data Sheet

### FUNCTIONAL V-178N TACKIFIER

#### APPLICATION:

**FUNCTIONAL V-178N** 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.

#### COMPOSITION:

The active polymeric ingredient in **FUNCTIONAL V-178N** is a polyisobutylene long-used in tackifiers. The diluent oil in **FUNCTIONAL V-178N** is a light naphthenic oil.

Typical Properties	
Specific Gravity	0.89
Lbs per Gallon	7.43
Flash Point (ASTM D92)	> 120°C (248°F)
Kinematic Viscosity (ASTM D445)	3,000 – 5,000 cSt at 100°C
Color (ASTM D1500)	3.5
String Length (0.5% in ISO 68 Gr. I)	60

#### 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 0.1 - 1.0% in the mist oil. The best treatment level for greases is left to the formulator. Since there are no standardized test methods for these properties, the required treatment level is best determined by the user.

#### HANDLING:

Due to the viscosity of **FUNCTIONAL V-178N**, elevated temperature about 150°F (65°C) can facilitate handling, but temperatures over 200°F (95°C) should be avoided. 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.

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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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