

### FUNCTIONAL V-175

#### ULTRA HIGH MOLECULAR WEIGHT TACKIFIER

#### APPLICATION:

**FUNCTIONAL V-175** 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. **FUNCTIONAL V-175** is ideal for single pass applications requiring excellent string.

#### COMPOSITION:

The active polymeric ingredient in **FUNCTIONAL V-175** is a polyisobutylene with a molecular weight of 4,000,000 – 6,000,000. The diluent oil in **FUNCTIONAL V-175** is light colored paraffinic oil.

Typical Properties	
Specific Gravity	0.86
Lbs per Gallon	7.20
Flash Point	180°C (360°F) ASTM D92 open cup >200°C (392°F) ASTM D93 closed cup
Kinematic Viscosity (ASTM D445)	5,250 – 6,500 cSt at 100°C
Color (ASTM D1500)	Yellow-orange (<3 ASTM)

#### TREATMENT LEVEL:

A starting treatment level for a way lube is 0.25%. For chain lubes the treatment range is 0.25% to 1.0%. Minimization of hydrocarbon aerosol escape from mist-lubricated and pneumatic equipment requires about 0.5% 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 experimentation by the user.

#### HANDLING:

Due to the viscosity of **FUNCTIONAL V-175**, elevated temperature (about 150°F (65°C) can facilitate handling, but temperatures over 200°F (95°C) should be avoided. Where higher temperatures or high shear are encountered, **FUNCTIONAL V-188** is recommended instead. 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.