

### FUNCTIONAL V-188 TACKIFIER AND ANTIMISTING ADDITIVE

#### APPLICATION:

**FUNCTIONAL V-188** 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-189** and **FUNCTIONAL V-190** are diluted versions of **FUNCTIONAL V-188** for lower viscosity and easier handling.

#### COMPOSITION:

The active additive in **FUNCTIONAL V-188** is a thermally stable, shear stable polyolefin. The diluent oil in **FUNCTIONAL V-188** is light colored paraffinic oil that does not require hazard labeling.

Typical Properties	
Specific Gravity	0.86
Lbs per Gallon	7.10
Flash Point	135°C (275°F)
Kinematic Viscosity	3,000 – 5,000 cSt at 100°C
Color	Yellow-orange (<4 ASTM)

#### Treatment Level

A starting treatment level for a way lube is 0.5%. For chain lubes the treatment range is 0.5% for moderate temperatures to 1.5% for high temperatures. Minimization of hydrocarbon aerosol escape from mist-lubricated and pneumatic equipment requires about 1.0% in the mist oil. Suppression of metalworking mists requires about 0.05 - 0.5%, depending on the machine and operation. 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-188**, an elevated temperature (about 200°F (95°C) or higher if necessary) can facilitate handling and storage since, unlike many competitive tackifiers, **FUNCTIONAL V-188** is thermally stable. Safe handling precautions are the same as those to be taken with the base oil; see the current Safety Data Sheet. Although **FUNCTIONAL V-188** is more shear stable than some other tackifiers, the tackiness of the resulting lubricant can be lessened by shearing, so mechanical shearing during blending and handling should be minimized.