

### FUNCTIONAL V-4270

#### MULTIFUNCTIONAL LIQUID POLYMER FOR GREASES

##### APPLICATION:

**FUNCTIONAL V-4270** is a mixture of multifunctional polymers specifically designed for use in greases to improve water resistance and mechanical stability. Its liquid form allows quick dissolution into grease. It is conveniently added to the grease during cooling and oil adjustment. **FUNCTIONAL V-4270** also increases the tackiness of the grease and reduces the soap content (higher yields).

##### COMPOSITION:

**FUNCTIONAL V-4270** is a unique mixture of polymers that work synergistically and is diluted in a naphthenic oil that does not require hazard labeling.

Typical properties	
Specific Gravity (ASTM D1298)	0.88
Lbs per Gallon (TM-04)	7.30
Flash Point (ASTM D92)	130°C (270°F)
Kinematic Viscosity (ASTM D445)	3700 cSt at 100°C
Color (ASTM D1500)	5.0 (Brown)
Water Spray-off, 4% Treat (ASTM D4049)	7% (Base grease 52%)
Water Wash-out, 4% Treat (ASTM D1264)	1.75% (Base grease 23.5%)

##### TREATMENT LEVEL:

A typical treatment level of 1.0 – 5.0% by weight is used in greases to confer water resistance and mechanical stability. Stay-in-grade performance has been shown for some greases at a 4% treat level. The required concentration is best determined by the formulator through experimentation.

##### HANDLING:

Due to the high viscosity of **FUNCTIONAL V-4270**, 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.

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.

Issued: 9/26/13