

FUNCTIONAL V-4004P2

Concentrated Liquid Grease Additive for Biodegradable Greases

APPLICATION:

FUNCTIONAL V-4004P2 is a concentrated solution of grafted polymer for use specifically in polyalphaolefin (PAO)-based greases at low treat rates to improve water resistance and mechanical stability. Its liquid form allows quick incorporation into grease without a long dissolving process and results in more consistent results than when using a solid polymer. It can be added to grease at the beginning of the reaction or with the cooling oil. **FUNCTIONAL V-4004P2** also increases the tackiness of the grease and reduces the required soap content resulting in higher yields.

COMPOSITION:

FUNCTIONAL V-4004P2 is a concentrated solution of grafted hydrocarbon polymer in a biodegradable synthetic fluid that does not require hazard labeling. **FUNCTIONAL V-4004P2** contains no mineral oil.

Typical properties	
Specific Gravity (ASTM D1298)	0.88
Lbs per Gallon (TM-04)	6.6 typical
Flash Point (ASTM D92)	>100°C (212°F)
Kinematic Viscosity (ASTM D445)	100 - 150 cSt at 100°C
Color (ASTM D1500)	< 1.0

TREATMENT LEVEL:

Typical treatment level of 4.0 – 6.0% by weight is used in greases to confer water resistance and mechanical stability. The required concentration is best determined by formulator and will vary depending on the grease type and the level of performance enhancement required.

HANDLING:

Due to the high viscosity of **FUNCTIONAL V-4004P2**, elevated temperatures up to 185°F (85°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.

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