

FUNCTIONAL DP-300

Dropping Point Improver for Lithium 12-Hydroxystearate Grease

APPLICATION:

FUNCTIONAL DP-300 is a high performance additive designed for simple lithium 12-hydroxystearate soap greases. The additive increases the three dimensional association of soap fibers in the grease improving resistance to flow at elevated temperatures.

COMPOSITION:

FUNCTIONAL DP-300 is a boron based additive. **FUNCTIONAL DP-300** does not have an objectionable odor nor does it impart an adverse odor to the final grease.

Typical Properties	
Appearance	Clear, colorless to light yellow liquid
Odor	Mild
Density @ 15°C, g/ml	1.35
Lbs per Gallon	11.7
Flash Point (COC)	> 150°C
Boron, %	10
Total Base Number, mg KOH / g	170 - 200

The following data was obtained using a formulation of **FUNCTIONAL DP-300** in comparison to the base grease (lithium 12-hydroxystearate) with no additional additives.

Performance of FUNCTIONAL DP-300			
	Base Grease	1.0 % FUNCTIONAL DP-300	3.0 % FUNCTIONAL DP-300
Dropping Point (ASTM D2265)	193°C (379°F)	239°C (463°F)	269°C (516°F)

TREATMENT LEVEL:

FUNCTIONAL DP-300 is effective at treat levels of 1% to 5% in a suitable lithium 12-hydroxystearate grease. The recommended process is to incorporate the **FUNCTIONAL DP-300** before other performance additives are added. **DP-300** should be mixed in at 90°-100°C for 1-2 hours. Then follow the mixing conditions for adding additional performance additives. Allow the grease to cool before testing.

HANDLING:

FUNCTIONAL DP-300 should be stored indoors in its original packaging in tightly sealed containers. Handle with suitable personal protection. See the 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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