

Valvoline Grease Portfolio

Product	NLGI	Technology (Thickeners, Base Oil etc.)	Texture/Color	Benefits	Performance Standards	Applications
Lithium MP Grease	3	Lithium	Buttery	Multi-purpose grease	IS 12203:1999 Reaffirmed 2004	Automotive Industrial Mining Agricultural applications
Lithium EP2 Grease	2	Lithium	Buttery	Performs well under Heavy Load and high speed conditions	IS 7623 (EP Type):1993 Reaffirmed 2001	Earth-moving Equipments, Gear Coupling, Mining Equipment
Crimson™ Grease	3	Lithium	Red	<ul style="list-style-type: none"> • Low bearing failure • Increased re-lubrication intervals • Extended bearing life 		Light and heavy-duty applications for on-road as well as off-road applications
BBEPL2 Grease	2	Lithium	Dark Brown	<ul style="list-style-type: none"> • Good adhesion character • Resistance to corrosion • Water resistant 	Meets IS 7623, Lithium Base EP 2 Meets IPSS:1-09-005 Steel Plants	Steel plants Rock crushers Blowers Continuous caster coupling Run out rolls
HD High Temp 230 Grease	2	Lithium	Yellow	<ul style="list-style-type: none"> • Good chemical stability • Good pumpability • Higher bearing life • Low power consumption • Increased re-lubrication intervals • Low bearing failures 		Electrical motors High temperature applications Slip seal application in steel plants



**CHANGE TO VALVOLINE.
BE UNSTOPPABLE™**

UNSTOPPABLE PERFORMANCE UNDER PRESSURE



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**Heavy-Duty High Temperature Grease
Designed To Meet Challenges**



Valvoline Grease



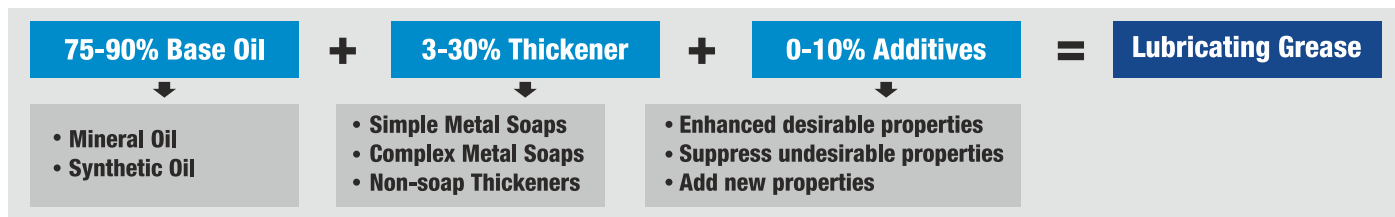
What is Grease?

- Sponge that holds the lubricant
- Solid to semi liquid products
- Lubricating oil and additives are major constituents of grease
- When sponge is squeezed (worked) the lubricant and additives are released

Introducing Valvoline™ Heavy-duty High Temperature Grease

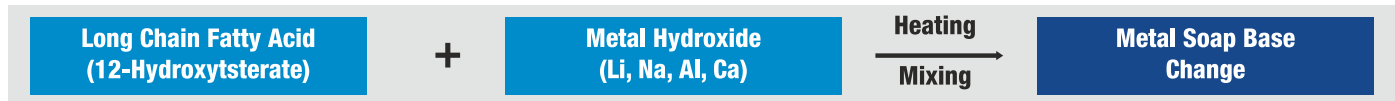


Anatomy of Lubricating Grease



Grease Manufacturing Process

Simple Soap (Saponification)



HD High Temp 230

Benefits of High Temperature Grease

- To enhance system efficiency
- To enhance wear protection
- To enhance re-lubrication interval

Technical Specifications of HD High Temp 230

Sr. No.	Test	Test Results	Test Method
1	Appearance	Smooth and homogenous	Visual
2	Consistency, Penetration at 25+/-0.5°C		ASTM D 217
	a> Unworked	270	
	b> Worked 60 strokes	272	
3	Color	Yellow	Visual
4	Drop Point, °C	230	ASTM D 566
5	Free Alkalinity as LiOH, % by mass	0.024	IP 37/85
6	Free Acidity as Oleic, % by mass		IP 37/85
7	Heat Stability at 100 °C for 30 hours % loss by mass	2.5	IS 1448 P 89
8	Leakage and Deposits foaming tendency (Wheel Bearing Test) leakage by mass, g	1.25	ASTM D 1263
9	Resistance to water wash out at 80°C % loss by mass	2.5	ASTM D 1264
10	Copper Strip Corrosion at 100°C for 24 hours	Negative	ASTM D 4048
11	Type of Soap	Lithium	

APPLICATIONS	PROPERTIES	BENEFITS
<ul style="list-style-type: none"> • High load and low load application in steel plant • Slip seal applications in steel plant • For slip seals in kilns and cooler • General trucks, chassis and wheel or roller bearing application • Automotive application where extended drain intervals are required • Electrical motors, high temperature areas and extreme pressure conditions 	<ul style="list-style-type: none"> • Advance technology lithium thickener • Excellent anti-corrosion, anti-rust and extreme pressure properties • High operating temperature capabilities • Thermally and mechanically stable • High drop point 	<ul style="list-style-type: none"> • High film strength • Exceptional sealing performance • Wide operating temperature range:- 30°C to 200°C to 200 deg cg • Extended re-lubrication Intervals • Reduced maintenance costs • Excellent high temperature lubrication • Extreme load protection