

# Ultra-Duty HD 0,1,2

Versatile multipurpose grease for wet conditions



## Product description

**Ultra-Duty HD** are versatile, high pressure greases with good adhesive properties designed for a wide variety of automotive and industrial applications.

## Customer benefits and product features

### Customer benefits

- Shock load protection
- Load-carrying protection
- Corrosion and rust protection
- Water resistant
- Maximum service lubrication

### Product features

Ultra-Duty HD greases are versatile, high pressure greases with good adhesive properties designed for a wide variety of automotive and industrial applications. They are manufactured using selected highly refined, high viscosity base oils, a lithium-12 hydroxystearate thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. They are red in color and stringy in texture.

Ultra-Duty HD greases provide thicker shock-absorbing oil film protection and greater water resistance than conventional multipurpose greases due to their high viscosity components.

The high viscosity components and tackiness additive give Ultra-Duty HD greases an excellent adhesive quality which provides a tenacious lubricating film in working parts. The lubricants stay in place under abrasive operating conditions to resist water washout and shock load wear.

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## Applications

Ultra-Duty HD greases are recommended for use in automotive and industrial equipment operating under most conditions except where very high operating temperatures are encountered. Typical applications are: mining equipment, construction equipment, material handling equipment, marine deck equipment, marine deck cranes, oil field equipment, offshore drilling equipment, paper machines, dredging equipment, logging equipment, rock quarry equipment, etc., operating in water, mud, or dusty conditions.

Ultra-Duty HD greases will help provide the needed shock load and rust protection and, best of all, they stay put which means less frequent regreasing.

In industrial service, Ultra-Duty HD greases are recommended for use in most types of plain and antifriction bearings from 1-1/2 inch OD to over 16 inch OD, operating at speeds from 50 to 3000 rpm, as well as slides, gears, ways, etc.

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## Typical test data

ULTRA DUTY HD	TEST METHOD	0	1	2
<b>Product Code</b>		<b>540937</b>	<b>510888</b>	<b>510889</b>
Operating Temperature, °C (°F)				
Minimum <sup>a</sup>		-26	-26	-26
Maximum <sup>b</sup>		132	138	143
ISO Viscosity Grade Base Oil Equivalent		460	460	460
Base Oil Viscosity, Kinematic				
cSt at 40°C	ASTM D445	460	460	460
cSt at 100°C	ASTM D445	31	31	31
Base Oil Viscosity Index	ASTM D2770	97	97	97
Thickener Type, m%		Lithium	Lithium	Lithium
Penetration, at 25°C Worked (60 strokes)	ASTM D217	360	325	280
Dropping Point, °C	ASTM D2265	171	171	190
Four Ball, Weld point, kgf	ASTM D2596	315	315	315
Four Ball Wear Scar, mm	ASTM D2266	0.45	0.45	0.45
Timken Ok Load, lb	ASTM D2590	55	70	70
Lincoln Venmeter, psg at 30 s, at	K95400			
24°C		100	100	280
-1°C		200	400	600
-18°C		1700	1750	250
Flash Point, °C	ASTM D92	274	274	274
Water Washout, wt% loss at 80°C	ASTM D1264	15	10	7
Water Spray-off, wt% at 38°C	ASTM D4049	N/A	40	25
Oil Separation, wt%	ASTM D1742	5	4	7
Thickener, %		5.6	7.2	8.6
Type		Lithium	Lithium	Lithium
Texture		Stringy	Stringy	Stringy
Color		Red	Red	Red

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## Typical test data *continued*

- a. Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
- b. Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.

Minor variations in product typical test data are to be expected in normal manufacturing

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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