# 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 |
|---|---|---|---|---|
| **Product Code** | | **540937** | **510888** | **510889** |
| Operating Temperature, °C (°F) | | | | |
| Minimum[a] | | -26 | -26 | -26 |
| Maximum[b] | | 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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## Versatile Multipurpose Grease for Wet Conditions

## 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 Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.