Mobilgrease XHP 220 Series

Product Description

Mobilgrease XHP 220 greases are extended service lithium complex greases intended for a wide variety of applications and severe operating conditions. These greases were designed to outperform conventional products by applying cutting edge, proprietary, lithium complex manufacturing technology. They are formulated to provide excellent high temperature performance with superb adhesion, structural stability and resistance to water contamination. These greases have a high level of chemical stability and offer excellent protection against rust and corrosion. These greases feature high dropping points and maximum recommended operating temperature of 140º C (284°F). Mobilgrease XHP 220 greases are available in NLGI grades 00, 0, 1, 2 and 3 with an ISO VG 220 base oil viscosity.

Mobilgrease XHP 220 greases are designed for a wide range of applications including the industrial, automotive, construction and marine sectors. Their performance features make them ideal choices for operating conditions including high temperature, water contamination, shock loading and extended re-lubrication operations. Mobilgrease XHP 222 Special is an extreme pressure grease containing molybdenum disulfide that provides protection from wear under conditions pivoting and other conditions that lead to loss of oil film.

Features and Benefits

Mobilgrease XHP 220 greases are leading members of the Mobilgrease brand of products, which have gained a reputation world-wide for innovation and performance excellence. Mobilgrease XHP 220 greases are state-of-the-art products designed by our formulation technologists and backed by our world-wide technical support staff.

A key factor in the excellent adhesion and cohesion properties and high drop point of Mobilgrease XHP 220 greases is the proprietary manufacturing technology developed at our research facilities and adopted by our modern manufacturing facilities. These products use specially selected additives to provide excellent oxidation stability, rust and corrosion control, resistance to water contamination as well as anti-wear and EP protection. Mobilgrease XHP 220 Series products offer the following features and potential benefits:

Features	Advantages and Potential Benefits
Superb resistance to water washout and spray-off	Assures proper lubrication and protection even in the most severe water exposure conditions
Highly adhesive and cohesive structure	Excellent grease tenacity, reduced leakage and extended re-lubrication intervals for reduced maintenance requirements.
Excellent rust and corrosion resistance	Protection of lubricated parts even in hostile aqueous environments.
Very good resistance to thermal, oxidative and structural degradation at high temperature	Extended grease life and enhanced bearing protection in high temperature applications offers reduced maintenance and replacement cost benefits.
Very good anti-wear and EP performance	Reliable protection of lubricated equipment, even under conditions of high sliding and shock loading with potential for extended equipment life and reduced unanticipated downtime

Features	Advantages and Potential Benefits
Broad multi-purpose application	Provides potential for inventory rationalization and reduced inventory costs

Applications

Mobilgrease XHP 220 greases are used in a wide range of equipment including industrial, automotive, construction and marine applications. Their blue color enables easy verification of application:

Mobilgrease XHP 005 and 220 are softer, high-temperature greases recommended for centralized grease application systems, gear lubrication, and where extreme-cold-temperature pumpability is important.

Mobilgrease XHP 221 is recommended for use in industrial and marine applications, chassis components and farm equipment. It provides excellent low temperature performance.

Mobilgrease XHP 222 is recommended for industrial and marine applications, chassis components and farm equipment. Its sticky formulation stays in applications longer.

Mobilgrease XHP 223 is recommended for applications where good high temperature and anti-leakage properties are required. It is particularly recommended for severe truck wheel bearing applications or for rolling element bearings subject to vibration, or where higher speeds require a grease with higher consistency to provide channeling characteristics.

Mobilgrease XHP 222 Special contains moly, is grey in color and is recommended for moderate duty service in industrial applications, chassis components and farm equipment. It also finds application in king pins, U-joints, fifth wheels and bucket pins

Typical Properties

Mobilgrease XHP	005	220	221	222	223	222 Special
NLGI Grade	00	0	1	2	3	2
Thickener Type	Li-Complex	Li-Complex	Li-Complex	Li-Complex	Li-Complex	Li-Complex
Color, Visual	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Grey-Black
Penetration, Worked, 25º C, ASTM D 217	415	370	325	280	235	280
Dropping Point, ºC, ASTM D 2265	-----	270	280	280	280	280
Viscosity of Oil, ASTM D 445						
cSt @ 40º C	220	220	220	220	220	220
4-Ball Wear Test, ASTM D 2266, scar, mm	0.50	0.50	0.5	0.5	0.5	0.5
4-Ball Weld Load, ASTM D 2509, kg	315	315	315	315	315	315
Timken OK Load, ASTM D 2509, lb	40	40	40	40	40	40
						STM D 2509, lb 40 40 40

Mobilgrease XHP	005	220	221	222	223	222 Special
Bomb Oxidation, ASTM D 942, Pressure drop at 100 hrs, kPa (psig)	35 (5)	35 (5)	35 (5)	35 (5)	35 (5)	35 (5)
ion, ASTM D 942, Pressure drop at 100 hrs, kPa (psiz)	35 (5)	35 (5)	35 (5)			
Corrosion Prevention, ASTM D 1743	Pass	Pass	Pass	Pass	Pass	Pass
Rust Protection, IP 220-mod., Distilled Water Washout	0,0	0,0	0,0	0,0	0,0	0,0
IP 220-mod., Distilled Water Washout	0,0	0,0	0,0			
Copper Strip Corrosion, ASTM D 4048	1B	1B	1B	1B	1B	1B

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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