

BIG RED

NON-MELT EP GREASE

PRODUCT DESCRIPTION

Big Red Non-Melt EP Grease is specially formulated from the highest quality paraffinic base oils and an inorganic base substance to withstand extreme pressures and temperatures, yet will maintain good shear stability and long life. It is one of the few greases able to withstand heavy shock load and impact pressures of 55 Timken load capabilities.

APPLICATIONS

Big Red Non-Melt EP Grease holds an advantage over conventional greases due to the addition of a specially formulated EP additive. It is used extensively in hot areas where conventional greases run, cake and melt. **Big Red** never melts. Even at temperatures over 1100° F, **Big Red** stays tacky and in place.

Its use in the steel industry has become legendary. In blast furnaces where on tap hole drills, mud guns and other areas on the furnace floor, **Big Red** has extended PM periods and cut lubrication time and lubrication usage by 50%. Coke oven operations have applied **Big Red** to oven doors, slides and covers to extend PM periods and increase overall efficiency. Because of a patented combination of natural base stocks and synthetic additives, **Big Red** has a clinging tacky substance which adheres to metal surfaces. It provides a slow but steady bleed of oil which continues to provide an even lubrication under the most demanding conditions.

When extreme operating conditions such as heavy loads and high temperatures would cause conventional greases to fail, **Big Red** will provide superior protection. **Big Red Non-Melt Grease** is a multipurpose grease which can be used not only where EP requirements are a necessity, but wherever a multipurpose grease is needed. **Big Red** has been used successfully in the following operations.

Air Conditioning
Aircraft
Automotive
Cement Plants

Construction
Elevators
Farms
Marine

Mining
Paper Mills
Sewage Plants
Oil Fields

STEEL MILLS

Blast Furnace
BOF
Hot Strip Mills

Coke Works
Electric Furnace
Soaking Pits

Crane Maintenance
River Screens
Traveling Screens

Advantages

- * Lubricates under boundary conditions
- * High temperature protection
- * Will not throw off or sling off at high speeds
- * Provides extra cushioning to reduce shock and noise
- * Seals out dirt, dust and contaminants to prolong life of metal parts
- * High shock and impact resistance
- * Resistance to oxidation, acids, water, salt spray, weather, dirt, dust and steam
- * Long life and shear stability
- * Contains special corrosion and rust inhibitors
- * Exceptional anti-wear properties
- * Excellent load carrying capacity- 55 Timken load

<u>PROPERTY</u>	<u>METHOD</u>	<u>RESULTS (#1)</u>	<u>RESULTS (#2)</u>
NLGI Grade	NLGI	No. 1	No. 2
Thickener Type	Infrared	Bentonite Clay	Bentonite Clay
Color	Visual	Red	Red
Texture	Visual	Smooth and Tacky	Smooth and Tacky
Water Content; %	D 128	0.25 max.	0.25 max.
Penetration; 60 xx	D 217	310 - 340	265 - 295
Penetration; 10,000 xx	D 217	360 max.	310 max.
Oxidation (PSI Drop @ 100 hrs.)	D 942	3.0 typ.	3.0 typ.
Wheel Bearing Leakage; g	D 1263	1.0 typ.	1.0 typ.
Water Washout @ 100° F, %	D 1264	10.0 typ.	10.0 typ.
Water Washout @ 175° F, %	D 1264	3.0 typ.	3.0 typ.
Dropping Point; °C (°F)	D 2265	None	None
Timken OK Load; lbs.	D 2509	55 min.	55 min.
Oil Separation; %	FTM 321.3	0.5 typ.	0.5 typ.
Base Oil Data:			
cSt. @ 40° C	D 445	220 typ.	220 typ.
SUS @ 100° F	D 2161	1150 typ.	1150 typ.
cSt. @ 100° C	D 445	18.1 typ.	18.1 typ.
SUS @ 210° F	D 2161	92.5 typ.	92.5 typ.
Viscosity Index	D 2270	90 typ.	90 typ.
Color; ASTM	D 1500	2.0 typ.	2.0 typ.
API Gravity	D 1298	23.8 typ.	23.8 typ.
Density, lbs/gal	D 1298	7.59 typ.	7.59 typ.
Specific Gravity, g/ml	D 1298	0.911 typ.	0.911 typ.
Pour Point, °C (°F)	D 97	-23 (-10) max.	-23 (-10) max.
Flash Point, °C (°F)	D 92	210 (410) typ.	210 (410) typ.