BIG RED (+) PLUS
NON-MELT EP GREASE

PRODUCT DESCRIPTION

Like our long recognized **Big Red Non-Melt EP Grease**, **Big Red (+) Plus** is formulated from the highest quality paraffinic base oils and an inorganic base substances to withstand extreme pressures and temperatures. Because of a far heavier oil base **Big Red (+) Plus** handles even heavier loads and is more appropriate in slower moving bearings where high temperatures are constant. Where heavier base oil is an advantage, we are recommending **Big Red (+) Plus**. It is one of the few greases able to withstand heavy shock load and impact pressures of 65 Timken load capabilities.

APPLICATIONS

Big Red (+) Plus 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 well in excess of 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 (+) Plus 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	Construction	Mining
Aircraft	Elevators	Paper Mills
Automotive	Farms	Sewage Plants
Cement Plants	Marine	Oil Fields

STEEL MILLS

Blast Furnace	Coke Works	Crane Maintenance
BOF	Electric Furnace	River Screens
Hot Strip Mills	Soaking Pits	Traveling Screens

Advantages

* Lubricates even better 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
* Higher 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- 65 Timken load

PROPERTY	METHOD	RESULTS (#2)
NLGI Grade	NLGI	No. 2
Penetration		
60x		265-295
10,000x		308-Max
Thickener Type	Infrared	Bentone
Color	Visual	Red
Texture	Visual	Smooth
Water Content; %	D 128	0.25 max.
Oxidation (PSI Drop @ 100 hrs.)	D 942	2.0 typ.
Wheel Bearing Leakage; g	D 1263	1.0 typ.
Water Washout @ 100° F, %	D 1264	10.0 typ.
Water Washout @ 175° F, %	D 1264	3.0 typ.
Dropping Point; °C (°F)	D 2265	None
Timken OK Load; lbs.	D 2509	65 min.
Oil Separation; %	D 1742	0.5 typ.
Base Oil Data:		
cSt @ 40° C	D 445	490
cSt @ 100° C	D 445	31.0
SUS @ 100° F	D 2161	2630 typ.
SUS @ 210° F	D 2161	152 typ.
Viscosity Index	D 2270	96 typ.
Color; ASTM	D 1500	4.0 typ.
API Gravity	D 1298	23.8 typ.
Density, lbs/gal	D 1298	7.5 typ.
Specific Gravity, g/ml	D 1298	0.911 typ.
Pour Point, °C (°F)	D 97	-9 (15)
Flash Point, °C (°F)	D 92	293 (560)