

Big Red

Non-Melt EP Grease



Big Red Non-Melt EP Grease is a high-performing extreme pressure grease engineered to withstand high temperatures, heavy loads, and demanding conditions. Its non-melt formulation supports consistency and adhesion where conventional greases fail — providing reliable lubrication at temperatures exceeding 1100°F.

HIGH-TEMPERATURE NON-MELT TECHNOLOGY

Big Red uses a patented combination of natural base stocks and synthetic additives that create a clinging, tacky substance adhering to metal surfaces and providing a slow, controlled release of lubrication. This ensures continuous protection under the most demanding conditions, including temperatures where conventional greases run, cake, and melt.

PRIMARY APPLICATIONS

Big Red is engineered for the most demanding industrial environments:

- Steel mills — blast furnaces, hot strip mills, coke works, electric furnaces, soaking pits.
- Paper mills, cement plants, and sewage treatment facilities.
- Heavy-duty equipment — construction, farming, mining, oil field.
- Automotive and marine equipment requiring extreme pressure protection.
- High-temperature and high-load bearing applications.

KEY BENEFITS

- Maintains performance at temperatures exceeding 1100°F without melting.
- 55 lb. Timken load rating for heavy shock and impact loads.
- Will not "throw off" or "sling off" at high speeds.
- Excellent shear stability for long service life.
- Strong resistance to water, dirt, dust, salt, and steam.
- Seals out contaminants to extend equipment life.

NON-MELT HIGH-TEMPERATURE PERFORMANCE

Big Red stays tacky and in place at temperatures over 1100°F, where conventional greases run, cake, and fail. Its inorganic base substance provides inherent thermal stability that synthetic-only formulations cannot match.

HIGH LOAD-CARRYING CAPACITY

With a 55 lb. Timken load rating, Big Red handles heavy shock loads and impact pressures with ease. Its enhanced EP additive system provides a robust protective film even under the most severe service conditions.

STRONG ADHESION TO METAL SURFACES

A patented combination of natural base stocks and synthetic additives creates a clinging, tacky substance that adheres firmly to metal and provides a slow, steady bleed of oil — continuously lubricating under demanding conditions.

EXCEPTIONAL SHEAR STABILITY

Big Red exhibits outstanding long-term shear stability, keeping its consistency and protective properties under extended use and mechanical stress — reducing how often equipment needs to be relubricated.

SUPERIOR CONTAMINATION RESISTANCE

Formulated to resist acids, water, weather, dirt, dust, salt, and steam, Big Red seals out contaminants that degrade conventional greases — extending equipment life and reducing unplanned maintenance.

PROVEN ACROSS DEMANDING INDUSTRIES

Big Red has shown long-term performance in steel mills, paper mills, cement plants, construction equipment, and marine applications — where reliability under extreme conditions is non-negotiable

Typical Physical & Performance Characteristics

Property / Test Method	Grade No. 1	Grade No. 2
NLGI Grade	No. 1	No. 2
Thickener Type, Infrared	Bentonite Clay	Bentonite Clay
Color	Red	Red
Texture	Smooth & Tacky	Smooth & Tacky
Cone Penetration, Worked x 60 Strokes, ASTM D-217	310–340	265–295
Cone Penetration, Worked x 10,000 Strokes, ASTM D-217	360 max.	310 max.
Water Content, %, ASTM D-128	0.25 max.	0.25 max.
Oxidation, PSI Drop @ 100 hrs., ASTM D-942	3.0 typ.	3.0 typ.
Wheel Bearing Leakage, g, ASTM D-1263	1.0 typ.	1.0 typ.
Water Washout @ 100°F, %, ASTM D-1264	10.0 typ.	10.0 typ.
Water Washout @ 175°F, %, ASTM D-1264	3.0 typ.	3.0 typ.
Dropping Point, ASTM D-2265	None (Non-Melt)	None (Non-Melt)
Timken OK Load, lbs., ASTM D-2509	55 min.	55 min.
Oil Separation, %, FTM 321.3	0.5 typ.	0.5 typ.
Kinematic Viscosity (Base Oil), cSt @ 40°C, ASTM D-445	220 typ.	220 typ.
Kinematic Viscosity (Base Oil), cSt @ 100°C, ASTM D-445	18.1 typ.	18.1 typ.
Viscosity Index, ASTM D-2270	90 typ.	90 typ.
Pour Point, °C (°F), ASTM D-97	–23 (–10) max.	–23 (–10) max.
Flash Point, °C (°F), ASTM D-92	210 (410) typ.	210 (410) typ.

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