

Big Red (+) Plus Non-Melt EP Grease



Big Red (+) Plus Non-Melt EP Grease is an advanced extreme pressure formulation built on proven Big Red technology, using heavier base oil to deliver superior protection for slower-moving equipment under sustained stress. It maintains non-melt performance at temperatures exceeding 1100°F while providing a higher 65 lb. Timken load rating.

HEAVIER BASE OIL TECHNOLOGY

Big Red (+) Plus uses a heavier base oil that provides enhanced film strength and load support — making it the preferred choice where standard Big Red is not sufficient. The heavier oil base also provides additional cushioning for slow-moving bearings subject to shock loading.

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 Industrial processing facilities
- Heavy-duty equipment — construction, farming, mining, oil field
- Slower-moving bearings under sustained high temperatures
- Equipment operating under continuous high-stress conditions

KEY BENEFITS

- Maintains performance at temperatures exceeding 1100°F without melting
- 65 lb. Timken load rating — higher than standard Big Red
- Will not "throw off" or "sling off" at high speeds
- Reduces wear in high-load, low-speed applications
- Strong resistance to water and corrosion
- Seals out contaminants to extend equipment life

HEAVIER BASE OIL FOR GREATER LOAD SUPPORT

Big Red (+) Plus uses heavier base oil that provides enhanced film strength and lubrication cushioning — making it the preferred choice for slower-moving equipment under sustained heavy loads where standard greases are not sufficient

HIGHER LOAD-CARRYING CAPACITY

With a 65 lb. Timken load rating, Big Red (+) Plus outperforms standard Big Red under demanding shock-load and impact conditions, providing robust protection for critical bearings and components.

PROVEN NON-MELT PERFORMANCE

Like all Big Red formulations, the (+) Plus grade maintains its tacky, in-place consistency at temperatures exceeding 1100°F — where conventional greases cake, melt, and lose their protective properties entirely.

STRONG ADHESION AND CONTROLLED OIL RELEASE

A patented additive system creates a clinging substance that adheres to metal surfaces and provides a slow, steady bleed of lubricating oil — ensuring continuous protection under extreme load and sustained temperature.

DESIGNED FOR SUSTAINED HIGH-STRESS CONDITIONS

Where standard greases cannot keep pace with sustained pressure, heat, and impact forces, Big Red (+) Plus delivers the film strength, stability, and load capacity that heavy industrial equipment demands.

PROVEN IN DEMANDING INDUSTRIES

Big Red (+) Plus has shown long-term performance in steel mills, paper mills, industrial facilities, and construction, agriculture and marine applications — where reliability under extreme conditions is non-negotiable

Typical Physical & Performance Characteristics

Property / Test Method	Grade No. 2
NLGI Grade	No. 2
Thickener Type, Infrared	Bentonite Clay
Color	Red
Texture	Smooth
Cone Penetration, Worked x 60 Strokes, ASTM D-217	265–295
Cone Penetration, Worked x 10,000 Strokes, ASTM D-217	308 max.
Water Content, %, ASTM D-128	0.25 max.
Oxidation, PSI Drop @ 100 hrs., ASTM D-942	2.0 typ.
Wheel Bearing Leakage, g, ASTM D-1263	1.0 typ.
Water Washout @ 100°F, %, ASTM D-1264	10.0 typ.
Water Washout @ 175°F, %, ASTM D-1264	3.0 typ.
Dropping Point, ASTM D-2265	None (Non-Melt)
Timken OK Load, lbs., ASTM D-2509	65 min.
Oil Separation, %, ASTM D-1742	0.5 typ.
Kinematic Viscosity (Base Oil), cSt @ 40°C, ASTM D-445	490
Kinematic Viscosity (Base Oil), cSt @ 100°C, ASTM D-445	31.0
Kinematic Viscosity (Base Oil), SUS @ 100°F, ASTM D-2161	2630 typ.
Kinematic Viscosity (Base Oil), SUS @ 210°F, ASTM D-2161	152 typ.
Viscosity Index, ASTM D-2270	96 typ.
Pour Point, °C (°F), ASTM D-97	–9 (15)
Flash Point, °C (°F), ASTM D-92	293 (560)
Density, lbs./gal, ASTM D-1298	7.5 typ.

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