

## TECHNICAL DATA SHEET



### BIG RED + PLUS NON-MELT EP GREASE

Like our long recognized Big Red Non-Melt EP Grease, **Big Red (+) Plus** is formulated from the highest quality paraffinic base oils and 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 recommend *Big Red (+) Plus*. It is one of the few greases able to withstand heavy shock load and impact pressures of 65 Timken load capabilities.

*Big Red (+) Plus* 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. Even at temperatures over 1100°F, *Big Red (+) Plus* stays tacky and in place and never melts.

Due to a patented combination of natural base stocks and synthetic additives, *Big Red (+) Plus* 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.

#### **Benefits/ Advantages:**

- Extreme protection – stays tacky & in place at temperatures over 1100°F
- Exhibits long life and shear stability
- Exceptional anti-wear properties
- Contains special rust and corrosion inhibitors
- Will not ‘throw off’ or ‘sling off’ at high speeds
- Excellent load carrying capacity – 65 Timken load
- Higher shock and impact resistance
- Strong resistance to oxidation, acids, water, weather, dirt, dust, salt and steam
- Seals out dirt, dust and contaminants to prolong life of metal parts

#### **CHEM AND LUBE**

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## Applications:

- Steel Mills – blast furnace, hot strip mills, coke works, electric furnace, soaking pits, river screens, traveling screens
- Paper Mills, cement plants, sewage plants
- Heavy equipment – construction, farm, automotive, aircraft, marine, mining, air conditioning, oil fields

| <u>PROPERTY</u>                 | <u>METHOD</u> | <u>RESULTS (#2)</u> |
|---------------------------------|---------------|---------------------|
| NLGI Grade                      | NLGI          | No. 2               |
| Penetration                     |               |                     |
| 60x                             |               | 265-295             |
| 10,000x                         |               | 308-Max             |
| Thickener Type                  | Infrared      | Bentonite Clay      |
| 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)           |

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