## **TECHNICAL DATA SHEET**

## **NOVAGARD®** EXTREME PRESSURE MULTIPURPOSE GREASE

Whitmore<sup>®</sup> Novagard<sup>®</sup> extreme pressure aluminum complex base grease can be used in a variety of grease-lubricated mining applications. Because of its excellent water resistance, wide operating temperature range, extreme pressure and antiwear characteristics, users have found that Novagard can replace several previously stocked greases. This aids in reducing inventories and lessening the chance of misapplication.

Novagard contains  $MoS_2$  and graphite to provide solid film lubrication which plates out on lubricated components to virtually eliminate metal-to-metal contact, even under severe shock loading conditions.

Many equipment applications experience stop-and-go conditions or reversing direction. This tends to shear down conventional greases, necessitating frequent relubrication, and may shorten bearing life. Novagard<sup>®</sup> has excellent mechanical stability which allows it to retain its original structure and consistency, even when worked very hard for extended periods under varying loads and speeds.

## **BENEFITS:**

- WATER-RESISTANT repels water.
- EXTREME PRESSURE protects against shock loads, welding and scoring. This results in fewer replacement parts and reduced downtime.
- OPERATING RANGE is easily pumped and protects in temperatures ranging up to 330°F (165°C) which reduces the need for seasonal grade changes.
- SEALS OUT DIRT AND CONTAMINANTS the durable aluminum complex base forms a protective barrier.
- VERSATILE FORMULATION ideal for a wide range of operating environments and applications. Helps reduce inventories and prevent misapplication.

## APPLICATIONS:

Whitmore Novagard extreme pressure grease is designed to lubricate antifriction bearings and bushings. It is also recommended for vehicle chassis points and U-joints as well a pivot points and bucket pins on earthmoving equipment. Novagard will provide extended service intervals and reduced wear to draglines, shovels, excavators, trucks, conveyors and other rolling stock as well as in-plant applications.

|                                    | TYPICAL CHARACTERISTICS   |  |  |
|------------------------------------|---|--|--|
| Grade                              | EP 0  | EP 1   | EP 2   |
| Cone Penetration (Worked)          | 355-385   | 310-340  | 265-295  |
| Dropping Point, °F (°C)            | 450 (260)   | 480 (249)  | 480 (249)  |
| Kinematic Viscosity                |   |  |  |
| cSt @ 40°C                         | 30  | 180  | 177  |
| cSt @ 100°C                        | 4.4   | 15.0   | 14.5   |
| Density, lb/gal @ 60°F (°C)        | 7.80  | 7.8  | 7.72   |
| Specific Gravity, g/cc @ 60°F (°C) | 0.930   | 0.930  | 0.927  |
| Timken OK Load, lb                 | Not Reported  | Not Reported   | 60   |
| Four Ball EP                       |   |  |  |
| Weld Point, kg                     | 500   | 620  | 620  |
| Load Wear Index                    | 75  | 85   | 85   |
| Four Ball Wear, Scar Width, mm     | 0.55  | 0.55   | 0.55   |
| Rust Test                          | Pass  | Pass   | Pass   |
| Copper Strip Corrosion for Greases | 1B  | 1B   | 1A   |
| 212°F (100°C) @ 3 hrs              |   |  |  |
| Thickener Type                     | Aluminum Complex  | Aluminum Complex   | Aluminum Complex   |
| Usable Temperature Range.          |   |  |  |
| °F                                 | -30 to 250  | -10 to 330   | 20 to 330  |
| °C                                 | -34 to 120  | -23 to 165   | -7 to 165  |
|                                    | Cone Penetration (Worked)<br>Dropping Point, °F (°C)<br>Kinematic Viscosity<br>cSt @ 40°C<br>cSt @ 100°C<br>Density, lb/gal @ 60°F (°C)<br>Specific Gravity, g/cc @ 60°F (°C)<br>Timken OK Load, lb<br>Four Ball EP<br>Weld Point, kg<br>Load Wear Index<br>Four Ball Wear, Scar Width, mm<br>Rust Test<br>Copper Strip Corrosion for Greases<br>212°F (100°C) @ 3 hrs<br>Thickener Type<br>Usable Temperature Range,<br>°F | Grade  EP 0    Cone Penetration (Worked)  355-385    Dropping Point, °F (°C)  450 (260)    Kinematic Viscosity | Grade  EP 0  EP 1    Cone Penetration (Worked)  355-385  310-340    Dropping Point, °F (°C)  450 (260)  480 (249)    Kinematic Viscosity |

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

| Shuttle Tanks Drums | Kegs | Pails | Cartridges<br>50 per case |
|---------------------|------|-------|---------------------------|
|---------------------|------|-------|---------------------------|

For warranty information, scan the QR code.



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