

## PETRONAS Grease Clay MEP

High Temperature Organophylic Bentonite Grease with Solid Lubricant



High Temperatures



Extreme Pressure



Water Resistant



Corrosion Protection



Lubrications Systems

### Description

**Petronas Grease Clay MEP** is an Organophylic Bentonite (clay) thickened, high temperature grease for industrial equipment where the capability of conventional greases may be exceeded by either continuous high temperature or cyclic conditions ranging from normal to extremely high temperatures.

This grease contains friction reducing solid lubricant Molybdenum Disulphide. It is particularly suitable for the lubrication of sliding machine elements subject to limited or slow motion or shock loading.

Ideal for limited access to re-grease areas and ideal for centralised lubrication systems. It features low oil bleed.

### Applications

**Petronas Grease Clay MEP** enjoys an excellent reputation in the lubrication of high temperature applications where conventional soap thickened products are not viable. Recommended for the lubrication of plain and anti-friction bearings operating continuously in the 150 to 170 °C range or under conditions where bearings are repeatedly cycled from normal ambient temperatures to the range encountered in equipment such as oven

conveyors chain bearings, kiln car wheel bearings and paper mill driers and corrugators. Glass manufacture conveyer belt roller bearings and cams, ways and other sliding machine elements.

Operating temperature range for -20°C to +140°C (max +180°C)

### Features & Benefits

- Minimizes leakage at high temperatures.
- Will not soften and leak from bearings.
- Resistant to changes in structure and consistency under temperature cycling conditions.
- Excellent corrosion and oxidation prevention.
- Good pumpability.
- Excellent protection against wear at high temperatures.
- Very good extreme pressure properties.
- Friction reduction solid lubricant properties.
- Resistant to water and steam washout.
- Low oil bleed properties.

## Product Data Sheet

Effective Date 01.01.2015 Version 1.0

**PETRONAS**  
High Performance Grease



### Typical Properties

|                                   | Test Method | Unit     | Petronas Grease<br>Clay MEP |
|-----------------------------------|-------------|----------|-----------------------------|
| DIN 51502 / DIN 51825             |             |          | KF1N-20                     |
| ISO 12924                         |             |          | L-XB(F)DAA1                 |
| NLGI Grade                        | ASTM D217   |          | 1                           |
| Thickener Type                    |             |          | Inorganic                   |
| Colour                            | Visual      |          | Grey                        |
| Penetration, @ 25°C Worked        | ASTM D217   | 0.1 mm   | 325                         |
| Dropping Point                    | IP 396      | °C       | Non-melt                    |
| Base Oil Type                     |             |          | Mineral Oil                 |
| Viscosity of Base Oil @ 40°C      | ASTM D445   | cSt      | 475                         |
| Oil Separation                    | ASTM D 1742 | %        | 5                           |
| 20,000 Strokes Worked Penetration | ASTM D217   | % Change | 15                          |
| Shell Roll Stability – 24hrs      | ASTM D1831  | % Change | 20                          |
| 4-Ball weld load                  | DIN 51350:4 | N        | 2000                        |
| 4-Ball Wear Scar 40kg/1hr         | DIN 51350:5 | mm       | 0.5                         |
| Density                           | IP PM-CS/03 | g/ml     | 0.92                        |
| Molybdenum Disulphide             | Calculate   | %        | 1                           |

### Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product

should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment. Due to continual product research and development, the information contained herein is subject to change without notification.