JADE CHEMICALS

**High Temperature EP Grease**

Range: -20° C (-4° F) to 800° C (1472° F)

Made with High Viscosity Synthetic Base Oil, Tungsten Disulfide particles and Special additives. The Grease has Dropping Point higher then 320°C in the Temperature range -20° C to 800° C.

It has excellent service life, superior stability and excellent load bearing properties.

The Grease has:

- Lowest Coefficient of Friction compared to other High Temperature Grease
- Excellent Extreme Pressure (EP) properties due to Tungsten Disulfide ($WS_2$) particles. Load bearing property of Tungsten Disulfide is @ 300,000 psi.
- High resistance to water, rust and a humid environment.
- Excellent mechanical stability under high shear.
- EP properties and strong resistance to abrasion means the grease is ideal for high load and impact load applications.
- Ideal properties for Bearing Grease application.

| Test | Typical Data | Test Method |
|---|---|---|
| Cone Penetration (NLGI class) | #0, #1, #2 | ASTM D217, GB/T269 |
| Infiltration Degree (0.1mm) | 310-340, 259-265, 220-250 | ASTM D217, GB/T269 |
| Dropping Point (°C) | > 320° C | ASTM D2265, GB/T3498 |
| Oil separation on steel | < 0.3 | ASTM |

| | | |
|---|---|---|
| net (100°C, 24 h) % | | D1742-94, SH/T0324 |
| Corrosion (T2 Sheet Copper, 100°C, 24 h) | No Color Change (Copper sheet does not turn green or black) | ASTM D4048, GB/T7326(II) |
| Evaporation Loss (150°C, 22 h) % | < 0.4 | ASTM D972-02, SH/T0337 |
| Water Washout (38°C, 1 h) % | < 3.5 | ASTM D1264, SH/T0109 |
| Four-ball Test PB(N) | ≥ 800 x 9.8<br>≥114 x 9.8 | ASTM D2596-97, GB/T3142 |
| Coefficient of Friction | 0.015 | |
| Free Alkali NaOH % | < 0.05 | SH/T0329 |

- High dropping point which means it does not solidify at higher temperatures Technical Specifications: Product Code: JD-WS2-HT

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