

# Black Gold™ EP Grease



## Product Description

**D-A Black Gold™ EP** is a multipurpose, extreme pressure, water resistant grease. Our grease is formulated with synthetic base stock, a polyurea thickener and our advanced additive technology which controls rust and oxidation. **Black Gold™ EP** is black in color and smooth and buttery in texture. It provides exceptional film strength and exhibits good adhesive properties. As a result, **Black Gold™ EP** is effective in providing superior wear protection in heavily loaded and shock load conditions. Designed as a roller bearing grease for use in wet operation conditions, **Black Gold™ EP** provides exceptional water wash-out resistance in conditions such as cascading water or actual bearing submergence. Excellent pumpability over a wide range of temperatures and relatively low pressure drop in piping. In addition, **Black Gold™ EP** performs well in high temperature applications.

**Black Gold™ EP** supports the performance requirements for general lubrication service in both automotive and industrial applications.

## Product Features and Benefits

Formulated with synthetic base stock, a polyurea thickener and advanced additive technology to control rust and oxidation.

Black in color and smooth and buttery in texture to assure pumpability.

Exceptional film strength and good adhesive properties result in effectiveness in providing superior wear protection in heavily loaded and shock load conditions.

Designed as a roller bearing grease for use in wet operation conditions, it provides exceptional water wash-out resistance in conditions such as cascading water or actual bearing submergence. Excellent pumpability over a wide range of temperatures and relatively low pressure drop in piping including high temperature applications.

## Typical Applications

### INDUSTRIAL APPLICATIONS:

Antifriction bearings  
 Low and high speed journal bearings  
 Roller and needle bearings  
 Shaker or classifier screen bearings  
 General machinery lubrication

Conveyors and run-out rolls  
 Exhaust fan bearings  
 Crusher bearings  
 Pump bearings  
 Electric motor bearings

### AUTOMOTIVE APPLICATIONS:

All chassis points including  
 Ball joints and universal joints  
 Wheel bearings  
 Water pumps  
 Fifth wheels  
 Steering system bearings  
 King pins

## Typical Properties

| NLGI Grade                                  | ASTM D217  | #0                      | #1                      | #2                      |
|---|------------|-------------------------|-------------------------|-------------------------|
| Thickener Type                              | ASTM D128  | MDI Polyurea            | MDI Polyurea            | MDI Polyurea            |
| Color                                       | Visual     | Black                   | Black                   | Black                   |
| Usable Operating Temperature Range, °F (°C) |            | -22 to 302 (-30 to 150) | -22 to 302 (-30 to 150) | -22 to 302 (-30 to 150) |
| Worked Penetration @ 77°F                   | ASTM D217  | 355-385                 | 310-340                 | 265 - 295               |
| Base Oil Viscosity @ 40°C                   | ASTM D445  | 145                     | 145                     | 145                     |
| Viscosity Index                             | ASTM D2270 | 95                      | 95                      | 95                      |
| Dropping Point, °F (°C)                     | ASTM D2265 | 450 (232)               | 500 (260)               | 500 (260)               |
| Four Ball EP, Weld Load kgf                 | ASTM D2596 | 400 min.                | 400 min.                | 400 min.                |
| Four Ball Wear, Scar Dia., mm               | ASTM D2266 | 0.6 max.                | 0.6 max.                | 0.6 max.                |
| Timken OK Load                              | ASTM D2509 | 40                      | 40                      | 40                      |
| Water Wash-Out, % Loss                      | ASTM D1264 | N/A                     | <2                      | <1                      |
| Water Spray-Off, % Loss                     | ASTM D4049 | N/A                     | <50                     | <40                     |
| Copper Corrosion Test                       | ASTM D4048 | 1b                      | 1b                      | 1b                      |
| Bearing Rust Test                           | ASTM D1743 | N/A                     | N/A                     | N/A                     |
| U.S. Steel Mobility, gm/min @ 0°F           | USS LT-37  | 10                      | 8                       | 3                       |
| U.S. Steel Mobility, gm/min @ 20°F          | USS LT-37  | 53                      | 23                      | 21                      |
| U.S. Steel Mobility, gm/min @ 60°F          | USS LT-37  | 338                     | 185                     | 90                      |

### D-A Part Number:

|                      |       |       |        |
|----------------------|-------|-------|--------|
| Bulk                 | 12961 | 12971 | 12981  |
| Drum – 400 lb        | 12962 | 12972 | 12982  |
| Qtr Drum – 120 lb    | N/A   | 12976 | 12986  |
| Pail (Metal) – 35 lb | N/A   | 12979 | 12989  |
| Cartridges – 43 lb   | N/A   | N/A   | 12987T |