



LUBRICANTS

## Omniguard® OSP 320

Phillips 66® Omniguard OSP 320 is a premium quality, synthetic, extreme pressure (EP), calcium sulfonate grease specially developed for use in industrial and heavy mobile equipment operating under severe conditions involving high loads, high temperatures and/or high humidity.

Omniguard OSP 320 is manufactured with high viscosity synthetic base oil, a calcium sulfonate thickener, and select additives to protect against rust and corrosion in high humidity, high temperature applications such as those found in the steel and paper industries. It has outstanding shear stability, resistance to water washout and high load carrying capacity to resist mechanical breakdown and protect against wear. The synthetic base oil allows for a wide operating temperature range.

### Applications

- Industrial equipment operating under unfavorable conditions involving water contamination, high loads and/or high temperatures
- Plain and rolling element bearings operating in corrosive conditions
- Steel mill and slab mill roller bearings
- Marine and heavy mobile equipment exposed to salt water
- Paper machine wet-and dry-end bearings and hot calender stacks

### Features/Benefits

- Excellent oxidation resistance and thermal stability at high temperatures
- Outstanding rust and corrosion protection, including resistance to saltwater corrosion
- Excellent EP and antiwear properties
- Outstanding resistance to water washout
- Outstanding shear stability
- High dropping point
- Does not contain heavy metals or other environmentally undesirable components

**Premium  
Synthetic  
Extreme Pressure  
Water Resistant  
Calcium  
Sulfonate Grease**

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



### Omniguard® OSP 320

| Typical Properties                        |            |                   |
|-------------------------------------------|------------|-------------------|
| NLGI Grade                                |            | <b>2</b>          |
| Thickener Type                            |            | Calcium Sulfonate |
| Color                                     | Visual     | Blue              |
| Texture                                   | Visual     | Smooth            |
| Dropping Point, °C (°F)                   | ASTM D2265 | >260 (>550)       |
| Viscosity, Kinematic                      | ASTM D445  |                   |
| Viscosity @ 40°C, cSt                     |            | 344               |
| Viscosity @ 100°C, cSt                    |            | 39.4              |
| Penetration, Worked (60 strokes)          | ASTM D217  | 265 - 295         |
| Oxidation Stability, 100 Hours, psi (kPa) | ASTM D942  | <2 (<14)          |
| Four-Ball Wear Scar, mm                   | ASTM D2266 | 0.5               |
| Four-Ball EP, Weld Load, Kgf              | ASTM D2596 | 500               |
| Timken OK Load, lbs                       | ASTM D2509 | 70                |
| Corrosion Prevention                      | ASTM D1743 | Pass              |
| Copper Corrosion                          | ASTM D4048 | 1B                |
| Water Spray-off, wt%                      | ASTM D4049 | <1                |

### Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/SDS>.