

76 Gearshield

76 Lubricants Gearshield is a black, adhesive, asphaltic-based lubricant developed for the lubrication and cushioning of open and semi-enclosed gears.

Gearshield is available in one grade: Heavy. It is formulated with high-quality naphthenic base oils, resins, asphalt and an extreme-pressure additive. It forms a heavy, tenacious film that adheres well to metal surfaces and will not harden or flake off, even at low temperatures. It has good load-carrying capacity to protect gears operating under conditions involving heavy loads, high peak loads or intermittent shock loads. It has good resistance to water washout and protects against corrosion.

Gearshield may be applied by pressure gun, brush, swab or drip cup.⁽¹⁾ It is not cut back with solvent.

Applications

- Open and semi-enclosed gears, such as those found on ball and rod mills, cement mills, drying kilns, papermaking machinery and presses, power shovels and similar equipment
- Guides and sliding surfaces with large clearances, where asphaltic-type lubricants are specified
- Cables on draglines, clamshells, shovels, hoists and other cable-operated equipment where cable safety clamp devices are not used

Features/Benefits

- Excellent adhesion to metal surfaces
- Forms a heavy, tenacious film to lubricate and cushion gear teeth
- Good extreme-pressure and antiwear properties
- Good resistance to water washout
- Protects against corrosion
- Will not flake off at low temperatures

⁽¹⁾ **Note:** This product requires heating for pumping at ambient temperatures below 12° C (54° F).

**Asphaltic-Type
Open Gear
Lubricant**

**Customer Service
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**Technical Hot Line:
1-800-435-7761**

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76 Gearshield
Typical Properties

Grade	Heavy
Density, g/cm ³ @ 15.6°C (60°F)	0.983
Density, lbs/gal @ 15.6°C (60°F)	8.19
Color, Visual	Black
Flash Point (COC), °C (°F)	246 (475)
Pour Point, °C (°F)	12 (54)
Viscosity,	
cSt @ 40°C	7,170
cSt @ 100°C	113
SUS @ 100°F	39,600
SUS @ 210°F	500
Timken OK Load, ASTM D2509, lb	30

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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