



LUCAS OIL PRODUCTS, INC. PRODUCT DATA SHEET

INDUSTRIAL GEAR OILS ISO 150, 220, 320 and 680



Lucas Oil Industrial Gear Oils are blended with the highest quality base oils and additives to provide outstanding anti-wear and extreme pressure protection, low foam, and excellent resistance to rust, corrosion, and oxidation for long-lasting equipment protection. They are yellow metal safe (brass, bronze, copper, and other copper alloys) and non-corrosive to gear steels.

Lucas Oil Industrial Gear Oils can be used in chain drives, sprockets, plain and anti-friction bearings, slide guides and flexible couplings. They are suitable for use in industrial equipment transmissions/gear boxes, and worm gears on mobile equipment. These premium industrial gear oils can withstand heavy loads and resist the effect of shock loads.

Formulated to meet or exceed AIST No. 224, AGMA (American Gear Manufacturers Association) 9005, and DIN 51517 Part 3, Lucas Oil recommends these oils for use in bevel, spur, herringbone, planetary, worm, and industrial hypoid gears.

Lucas Industrial Gear Oils are available in five common ISO Viscosity Grades: ISO 150, 220, 320, 460, and 680.

PART NUMBER AND SIZE:

11164 - ISO 150 (5 Gallon Pail)
10673 - ISO 150 (55 Gallon Drum)
11119 - ISO 150 (330 Gallon Tote)
10960 - ISO 220 (1 Gallon)
10589 - ISO 220 (5 Gallon Pail)
10590 - ISO 220 (55 Gallon Drum)
10508 - ISO 220 (330 Gallon Tote)
18060 - ISO 220 (6 Gallon BIB)
10591 - ISO 320 (5 Gallon Pail)
10592 - ISO 320 (55 Gallon Drum)
11120 - ISO 320 (330 Gallon Tote)
18061 - ISO 320 (6 Gallon BIB)
10806 - ISO 460 (55 Gallon Drum)
11121 - ISO 460 (330 Gallon Tote)
11158 - ISO 680 (5 Gallon Pail)
10496 - ISO 680 (55 Gallon Drum)
11122 - ISO 680 (330 Gallon Tote)
18064 - ISO 680 (6 Gallon BIB)

FEATURES AND BENEFITS:

- Outstanding extreme pressure and shock load protection for gears
- Low-foaming formulation.
- Excellent rust, corrosion, and oxidation protection to provide long-lasting equipment protection.

MAIN APPLICATIONS:

Suitable for use in a wide variety of industrial equipment. Recommended wherever a quality industrial gear oil is required in the following ISO Viscosity Grades: ISO 150, 220, 320, 460, and 680.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS:

Formulated to meet or exceed AIST No. 224, AGMA (American Gear Manufacturers Association) 9005, and DIN 51517 Part 3.



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TYPICAL PHYSICAL CHARACTERISTICS:

PROPERTIES	ASTM	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680
API Gravity	D4052	29.1	28.9	27.8	27.3	27.5
Specific Gravity @ 60°F	D4052	0.881	0.882	0.888	0.891	0.890
Density, lbs/US Gal	D4052	7.35	7.34	7.41	7.43	7.41
Viscosity @ 40°C, cSt	D445	150	220	320	460	680
Color	D1500	3.0	3.0	3.0	4.5	5.0
Flash Point, Open Cup, °F	D92	490	490	490	490	510
Copper Corrosion, rating	D130	1B	1B	1B	1B	1B

These characteristics are typical of current production. However, slight variations in these characteristics may occur.

LINKS AND ADDITIONAL INFORMATION:

For additional product or health and safety information, including product Safety Data Sheets, visit [LucasOil.com](https://www.LucasOil.com)