



LE PRODUCTS
MANUFACTURED
UNDER AN ISO
9001:2000
CERTIFIED QUALITY
SYSTEM

1302 DUOLEC® INDUSTRIAL LUBRICANT

**An Extreme Pressure, Exceptionally Adhesive,
Non-Foaming Industrial Oil With Good Water
Separation Characteristics.**

1302 Duolec® Industrial Lubricant is an ISO VG 68 high-performance industrial oil. It is designed for use in any industrial gear or bearing application that requires a thermally stable, extreme pressure lubricant. It also meets the requirements for use in many machine tool ways, journal bearings in blower fans and water pumps. In addition, 1302 is fortified with a shear stable tackifier to provide adhesion to the metal during use. This enables the 1302 to stay in place during shutdowns and makes startup easier.



BENEFICIAL PROPERTIES:

- Formulated using a blend of high quality paraffinic and synthetic base fluids which, in combination, have been found to provide excellent oxidation resistance, thermal stability, and film strength.
- Contains a highly shear stable tackiness system that allows it to adhere to metal components, yet remain tacky and within viscosity grade during high shear use or filtration.
- Unique blend of base fluids and thermally stable extreme pressure additives that resist sludge formation in high temperature gear and bearing applications.
- Separates readily from water to provide effective lubrication when moisture is present. In most cases, the 1302 will float on top of the cutting fluid and not emulsify. When used on machine tool ways, this allows easy separation of the 1302 from cutting fluid.
- Contains non-silicone defoaming additives which resist removal during oil filtration.
- Contains Duolec, LE's proprietary dual acting liquid wear-reducing and extreme pressure additive.
- Contains no solids.
- Amber in color to allow condition monitoring based upon color change.

WHAT IS DUOLEC®?

Duolec is LE's proprietary additive incorporating revolutionary technology designed specifically for use in LE gear lubricants. It is a temperature activated, dual acting, liquid additive that imparts special properties and synergies to the LE Products in which it is used. Duolec increases lubricant film strength and protects metal surfaces outperforming conventional lubricant additives at greater temperatures and loads.

**LUBRICATION
ENGINEERS,® Inc.**

Leaders in Lubricants



1302 TECHNICAL DATA

PHYSICAL CHARACTERISTICS-TYPICAL:

ISO VG	68
SAE Grade	80
AGMA Grade	2 EP
Gravity, °API	29.8
Sp. Gravity	0.882
Viscosity,	
cSt @ 40°C	70.75
cSt @ 100°C	9.44
Viscosity Index	111
Color	Amber
Flash Point, °F (°C)	410 (210)
Pour Point, °F (°C)	-17 (-27)



PERFORMANCE TEST RESULTS:

Timken OK Load, lbs (kgs)	75 (34)
4-Ball Wear, mm	0.33
4-Ball Weld Pt, kg	400
Load Wear Index, LWI	77.2
Copper Corrosion @ 121°C	1b
Rust Prevention,	
Syn Sea Water	Pass
Foam Seq I, II, III	0,0,0
FZG Fail Stage	14+

MEETS THE PERFORMANCE OF:

AGMA 9005 E02
API GL-5
USDA H2
MIL-L-2105E

US Steel 224
DIN 51517 Part 3
AGMA 250.04
ISO 12925 Type CKD

David Brown Type E
Bucyrus International, Inc.
Cincinnati Machine P-47



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