

Product Information



H1 Quinplex® White Oil (4010-4040)

Pure, Nonstaining Lubricant Provides Reliable Water-Resistant Protection for Food Equipment

LE's H1 Quinplex® White Oil (4010-4040) is an NSF H1 registered lubricant designed to use in food processing equipment where incidental contact may occur or where a clean, nonstaining lubricant is required. It contains Quinplex, LE's proprietary impact-resistant additive, and is superior to competitive products in oxidation and wear resistance. It reliably extends asset life and decreases the likelihood of expensive unplanned downtime – crucial with high-capital, continuous process equipment.

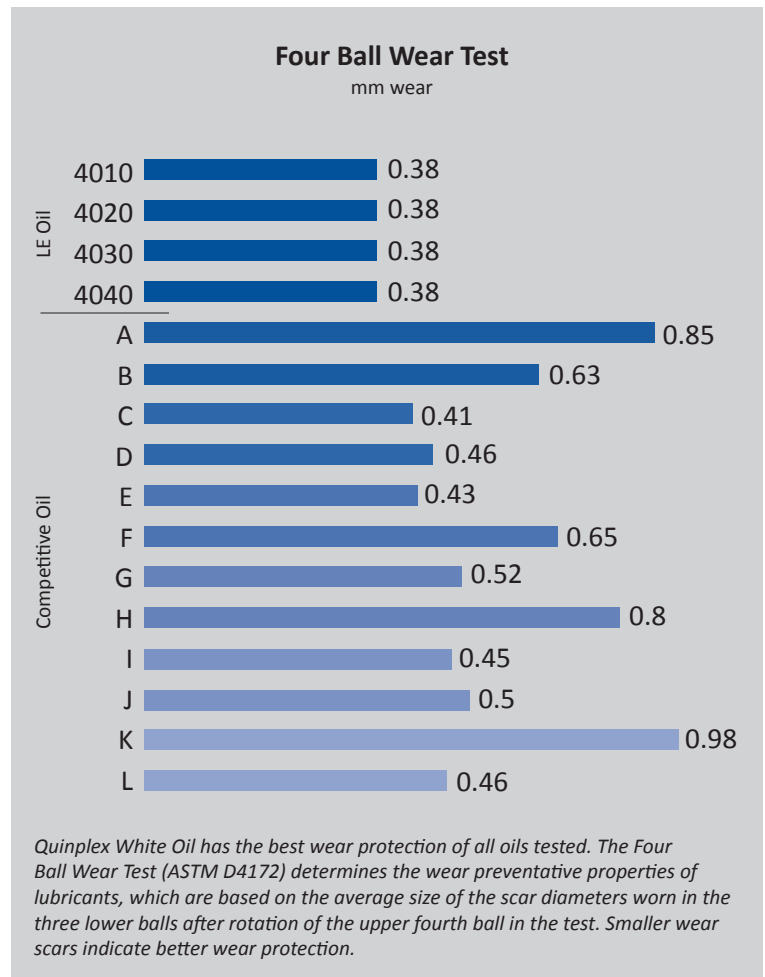
Beneficial Qualities

Food Grade

- Pure, nonstaining, odorless, tasteless, clear and nonirritating lubricant
- Can be used with confidence where incidental food contact or staining can occur
- Registered NSF H1
- Certified Kosher Pareve
- Certified Halal by IFANCA

Superior Protection

- Is tacky and clings to metal surfaces
- Provides crucial water resistance
- Prevents rust and corrosion
- Provides anti-wear protection
- Has nonfoaming characteristics



Proprietary Additive

LE's proprietary additives are used exclusively in LE lubricants. H1 Quinplex White Oil contains Quinplex.

Quinplex® impact-resistant additive contributes to outstanding water resistance, tackiness and enhanced mechanical stability, and helps to form a barrier against corrosion.





H1 Quinplex® White Oil

| | <u>4010</u> | <u>4020</u> | <u>4030</u> | <u>4040</u> |
|---|---------------|---------------|---------------|---------------|
| Color | Amber | Amber | Amber | Amber |
| SAE Grade / ISO VG | 10 / 46 | 20 / 68 | 30 / 100 | 40 / 150 |
| Relative Density @ 60°F/60°F, ASTM D1298 | 0.860 | 0.874 | 0.880 | 0.876 |
| Viscosity @ 100°C, cSt, ASTM D445 | 6.82 | 8.95 | 11.46 | 16.50 |
| Viscosity @ 40°C, cSt, ASTM D445 | 45.37 | 67.33 | 98.01 | 157.36 |
| Viscosity Index ASTM D2270 | 105 | 107 | 104 | 111 |
| Flash Point °C (°F), (COC), ASTM D92 | 204 (399) | 216 (421) | 227 (441) | 221 (430) |
| Pour Point °C (°F), ASTM D97 | -36 (-33) | -30 (-22) | -30 (-22) | -30 (-22) |
| Rust Test 4 hrs @ 60°C, DI H₂O, ASTM D665A | Pass | Pass | Pass | Pass |
| Copper Corrosion 3 hrs @ 100°C, ASTM D130 | 1b | 1b | 1b | 1b |
| Oxidation by RPVOT @ 150°C, minutes, ASTM D2272 | 800 | 800 | 800 | 800 |
| Four-Ball Wear @ 75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172 | 0.38 | 0.38 | 0.38 | 0.38 |
| Emulsion Characteristics @ 54°C, oil-water-emulsion/minutes, ASTM D1401 | 40-40-0/10 | 40-40-0/10 | - | - |
| Emulsion Characteristics @ 82°C, oil-water-emulsion/minutes, ASTM D1401 | - | - | 40-40-0/10 | 40-40-0/10 |
| Foaming Characteristics @ 24°C/93.5°C/24°C, 3 sequences, ml of foam/time to break, ASTM D892 | 0/0; 0/0; 0/0 | 0/0; 0/0; 0/0 | 0/0; 0/0; 0/0 | 0/0; 0/0; 0/0 |

Performance Requirements Met or Exceeded

- Halal
- Kosher Pareve
- NSF H1
- Angelus Sanitary Can Machine (4020-4040)
- Ex-Cell-O Corp Pure-Pak Machine (4030)
- Hydreco (4010)

Typical Applications

- Bearings, bushings, slides, guides, chains, compressors, valves, vacuum pumps, and hydraulic systems used in food processing equipment and other applications requiring a food grade or nonstaining lubricant.

