



## 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.

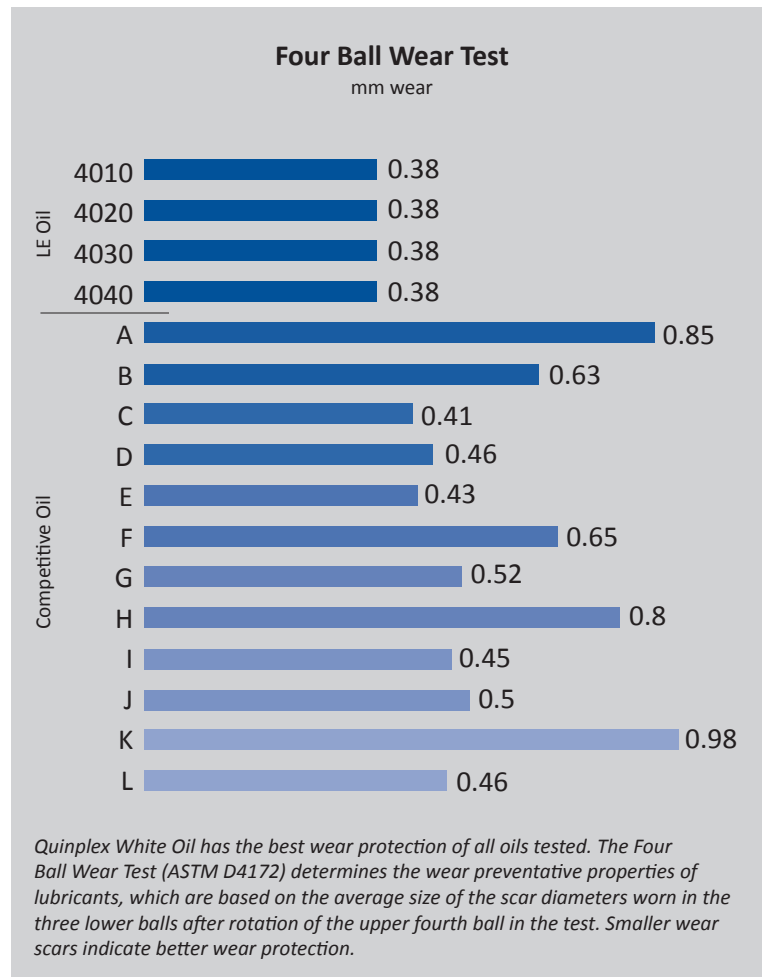
### Beneficial Qualities

#### 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>
<b>Color</b>	Amber	Amber	Amber	Amber
<b>SAE Grade / ISO VG</b>	10 / 46	20 / 68	30 / 100	40 / 150
<b>Relative Density @ 60°F/60°F, ASTM D1298</b>	0.860	0.874	0.880	0.876
<b>Viscosity @ 100°C, cSt, ASTM D445</b>	6.82	8.95	11.46	16.50
<b>Viscosity @ 40°C, cSt, ASTM D445</b>	45.37	67.33	98.01	157.36
<b>Viscosity Index ASTM D2270</b>	105	107	104	111
<b>Flash Point °C (°F), (COC), ASTM D92</b>	204 (399)	216 (421)	227 (441)	221 (430)
<b>Pour Point °C (°F), ASTM D97</b>	-36 (-33)	-30 (-22)	-30 (-22)	-30 (-22)
<b>Rust Test 4 hrs @ 60°C, DI H<sub>2</sub>O, ASTM D665A</b>	Pass	Pass	Pass	Pass
<b>Copper Corrosion 3 hrs @ 100°C, ASTM D130</b>	1b	1b	1b	1b
<b>Oxidation by RPVOT @ 150°C, minutes, ASTM D2272</b>	800	800	800	800
<b>Four-Ball Wear @ 75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172</b>	0.38	0.38	0.38	0.38
<b>Emulsion Characteristics @ 54°C, oil-water-emulsion/minutes, ASTM D1401</b>	40-40-0/10	40-40-0/10	-	-
<b>Emulsion Characteristics @ 82°C, oil-water-emulsion/minutes, ASTM D1401</b>	-	-	40-40-0/10	40-40-0/10
<b>Foaming Characteristics @ 24°C/93.5°C/24°C, 3 sequences, ml of foam/time to break, ASTM D892</b>	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.

