



TECHNICAL DATA BULLETIN

**4010-4030 (H1)
QUINPLEX® White Oils
4090-4140 (H1)
QUINPLEX® White Gear Lubricant**

DESCRIPTION:

Food Grade White Oils containing LE's proprietary additive, QUINPLEX. Have excellent load-carrying abilities and anti-wear properties. Rust and oxidation inhibitors; formulated from USP Grade Mineral Oils. NSF H1 registered / USDA H1 performance. Contains an anti-microbial agent to prevent the growth of microorganisms.

PHYSICAL CHARACTERISTICS – TYPICAL:

	4010	4020	4030	4090	4140
ISO Grade	46	68	100	220	460
Equivalent SAE Grade	---	20	30	90	140
Gravity, °API	27.1	26.7	26.2	26.6	26.8
Viscosity					
SUS @ 100°F	224	349.4	532	1108	2279
SUS @ 210°F	44.97	50.77	58.07	86.98	140.7
cSt @ 40°C	43.15	66.88	101	209.2	427
cSt @ 100°C	5.66	7.40	9.5	16.85	28.81
Flash Point, °F (°C)	370 (188)	390 (198)	410 (210)	406 (208)	410 (210)
Pour Point, °F (°C)	-33 (-36)	-27 (-33)	-22 (-30)	-6 (-21)	-6 (-21)

PERFORMANCE TEST RESULTS:

Four Ball Wear, ASTM D-4172, 40 Kg, Scar Dia., mm	0.39	0.39	0.39	0.36	0.36
Rust Test, ASTM D-665	Pass	Pass	Pass	Pass	Pass
Falex EP, ASTM D-3233, lbs. force	1500	1500	1500	1500	1500
Copper Strip Corrosion, ASTM D-130	1b	1b	1b	1b	1b
Timken EP, ASTM D-2782, lbs.	---	---	---	20	20
Foam Test, ASTM D-892	0/0;0/0;0/0	0/0;0/0;0/0	0/0;0/0;0/0	0/0;0/0;0/0	0/0;0/0;0/0
Oxidation Resistance, RPVOT ASTM D-2272, minutes	800	800	800	---	---

MEETS PERFORMANCE REQUIREMENTS OF:

USDA H1	Ex-cell-o Corp – Pure- Pack Machine (4030 &4140)
NSF H1 Registered	Hydreco (4010)
Angelus Sanitary Can Machine (except 4010)	Lanham – Proofer Chain (4090)

LUBRICATION ENGINEERS, Inc.

APPLICATION:

Any application where incidental food contact can occur – hydraulic systems, slides, guides, chains, valves, vacuum pumps, compressors, bearings, gearboxes specifying non-EP gear lubes, open gears and conveyor chains.

BENEFICIAL QUALITIES:

Available in five viscosity grades.

Excellent load-carrying ability (1500 lbs. force Falex EP Test).

Excellent anti-wear properties.

Additives are all food grade approved.

Meet the requirements for USDA H1.

Formulated from USP Grade mineral oils.

Rust and Oxidation inhibited.

Long service life without gumming or discoloration.

Method of Application:

- Bath or Reservoir
- Force-Feed Lubricator
- Circulating Pump

These lubricants conform to CFR Title 21, Part 178, Section 178.3570 as published by the FDA.

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SS010297
SS052600
SS092900
TDB/4010-4140