



TECHNICAL DATA BULLETIN

**6801-6807
MULTILEC®
Industrial Oil**

LEADERS IN LUBRICANTS

DESCRIPTION:

A truly multi-functional, heavy duty rust and oxidation (R&O) and anti-wear (AW) industrial oil suitable for air compressors, hydraulics, bearings, industrial turbines and R&O gear applications. Compounded with premium paraffinic base stocks for greater lubricity. Outstanding rust and oxidation resistance. Excellent water separation ability. Anti-wear additive for increased gear and bearing life. Formulated to combat acid hydrolysis in rotary screw compressors. Contains MONOLEC®, LE's exclusive wear-reducing additive.

PHYSICAL CHARACTERISTICS—TYPICAL:

	6801	6802	6803	6804	6805	6806	6807
ISO Grade	32	46	68	100	150	220	320
Equivalent SAE Grade	—	—	20	30	40	50	60
AGMA Grade	—	1	2	3	4	5	6
Gravity, °API	31.6	30.9	30.4	30.1	29.7	29.6	28.8
Viscosity,							
SUS @ 100°F	162.2	236.5	353.1	511.8	785.1	1143.0	1779.0
SUS @ 210°F	43.57	48.24	55.03	64.49	78.50	95.71	123.0
cSt @ 40°C	31.50	45.96	68.30	98.59	150.1	217.2	335.2
cSt @ 100°C	5.25	6.66	8.66	11.27	14.83	18.90	24.99
Viscosity Index	95	95	95	95	95	95	95
Flash Point, °F (°C)	400 (204)	415 (212)	425 (218)	435 (224)	435 (224)	425 (218)	420 (216)
Pour Point, °F (°C)	-27 (-33)	-33 (-36)	-22 (-30)	-17 (-27)	-11 (-24)	-11 (-24)	-6 (-21)
Color	Red	Red	Red	Red	Red	Red	Red

TEST RESULTS:

Copper Corrosion, ASTM D-130, Color Code	1b	1b	1b	1b	1b	1b	1b
Salt Water Rust Test, 48 hrs., ASTM D-665B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation Stability* UOT, hrs.	>20,000	>20,000	>20,000	>20,000	>20,000	>20,000	>20,000
<i>*Universal Oxidation Test at 250°F (121°C), 10 liters air/hr., extrapolated hours to TAN = 2.0</i>							
Rotary Bomb Oxidation Test (RBOT), ASTM D-2272, mins.	1,300	1,300	1,300	1,300	1,300	1,300	1,300
Four-Ball Wear Test, ASTM D-4172 (40 kg, 75°C, 1200 rpm, 1 hr) mm.	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Water Separation, ASTM D-1401, ml oil-ml water-ml emulsion (mins.)	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)
Dielectric Strength, ASTM D-877, kV min.	35	35	35	35	35	35	35
FZG Test, Load Stage Pass						10	10

MEETS PERFORMANCE SPECIFICATIONS OF:

AGMA 9005-E02	Cincinnati-Machine P-70 6802
USDA	Dennison HF-O (all except 6801)
US Steel 126	Sperry Vickers I-286-S Industrial
Cincinnati-Machine P-68 6801	Sperry Vickers M-2950-S Mobile

APPLICATION:

Air compressors, hydraulics, circulating oil systems, air line oilers, bearings, gearboxes and other long service applications. Approved by hydraulic equipment manufacturers: Denison, Cincinnati-Machine and Vickers. Meets all specifications of U. S. Steel 126 and AGMA 9005-E02.

LUBRICATION ENGINEERS, Inc.

BENEFICIAL QUALITIES:

Contains MONOLEC[®], LE's exclusive wear-reducing additive.

Special oxidation inhibitor for long oil life under high heat conditions.

Exceptional rust protection. Exceeds ASTM D-665 Salt Water Rust Test.

Best lubrication for gears, bearings, hydraulics and air compressors.

Prevents sludging during service. Keeps systems clean and operating smoothly.

Protects against corrosive wear.

Rapid separation from water.

High film strength to protect moving parts.

Special anti-wear additive controls corrosive wear and scuffing wear. Assures longer life for bearings and rubbing surfaces.

Long service means less labor costs for changing oil, cleaning systems, and less downtime.

High natural viscosity index. Less change in viscosity as temperature changes. Retains natural VI.

Contains foam suppressant.

Red color helps trace leaks.

USDA H2

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