



DURALIFE® SYNTHETIC FOOD MACHINERY HYDRAULIC FLUIDS

DURALIFE® SYNTHETIC FOOD MACHINERY HYDRAULIC FLUIDS are odorless, ashless, non-toxic, premium quality food grade anti-wear full synthetic lubricants blended from polyalphaolefin (PAO) synthetic base oils and additives to meet the stringent requirements of the NSF International guidelines for incidental food contact. They are designed specifically for use in hydraulic systems in food, feed & pharmaceutical processing, bottling and packaging industry.

APPLICATIONS :

DURALIFE® SYNTHETIC FOOD MACHINERY HYDRAULIC FLUIDS are recommended for high pressure hydraulic systems, circulating oil system, airline lubricators, plain and anti-friction bearings, hydrostatic gears in canneries, beverage bottling plants, breweries & wineries, drinking & potable water treatment, potato/corn chip plants, bakeries, sugar & candy manufacturers, cheese product producers, pasta manufacturers, vegetable & fruit processors, meat and poultry processing plants, seamers, egg processing plants, fish & seafood processing plant, frozen food plants, pet food & animal feed producers and other food manufacturing & processing plants. It also is recommended for pharmaceutical industry such as pharmaceutical & drug manufacturers, cosmetic manufacturers.

DURALIFE® SYNTHETIC FOOD MACHINERY HYDRAULIC FLUIDS meet the requirements of all major hydraulic pump manufacturers.



- ❖ Cincinnati Milacron P-68, P-69, P-70.
- ❖ Visker's 104 vane pump wear test.
- ❖ DIN 51524 HLP/HVLP

BENEFITS :

- H1 food grade hydraulic oil.
- High viscosity index for improved system performance.
- Excellent wear, corrosion and rust protection. High load anti-wear protection.
- Wide temperature range. Excellent resistance to thermal degradation.
- Rapid water separation. Excellent demulsibility.
- Superior oxidative and thermal stability.
- Excellent air release and antifoam characteristics prevent cavitation.
- Excellent lubrication under heavy loads.
- Better adhesion on surface
- Compatibility with all types of seals and coatings.
- Greatly reduce possibility of fire and explosion hazard.

TYPICAL CHARACTERISTICS :

Product Specifications	Test Method	PAO FMAW 15	PAO FMAW 32	PAO FMAW 46	PAO FMAW 68	PAO FMAW 100	PAO FMAW 150
ISO Grade		15	32	46	68	100	150
Specific Gravity @ 15.6°C	ASTM D 1298	0.815	0.830	0.833	0.835	0.845	0.848
Color	ASTM D 1500	0.5	0.5	0.5	0.5	0.5	0.5
Viscosity	ASTM D 445						
@ 40 °C , cSt		16.5	32.0	46.0	68.0	100.0	150.0
@100 °C, cSt		3.80	6.13	7.66	10.50	13.60	18.21
Viscosity Index	ASTM D 2270	122	143	134	142	136	135
Flash Point, °C (°F)	ASTM D92	224 (435)	238 (460)	256 (492)	262 (503)	263 (505)	263 (505)
Pour Point, °C (°F)	ASTM D 97	-54 (-65)	-51 (-60)	-47 (-52)	-43 (-45)	-41 (-42)	-40 (-40)
Copper Corrosion	ASTM D 130	1a	1a	1a	1a	1a	1a
Rust test A&B	ASTM D 665	Pass	Pass	Pass	Pass	Pass	Pass
Foam Sequence I, II, III	ASTM D 892	Nil	Nil	Nil	Nil	Nil	Nil
Demulsibility/10 MIN.	ASTM D 1401	40/40/00	40/40/00	40/40/00	40/40/00	40/40/00	40/40/00
Four- Ball Wear Test, 1200 rpm, 25 °C, 40 Kgf, 1hr, mm	ASTM D 2783	0.38	0.36	0.36	0.36	0.34	0.34

Specification & Certificates							
	NSF International Registration #	158102	158103	158104	158105	158106	158107
	HALAL Certificate #	HPR 3377 – O/G					

The above characteristics are average values based on recent production .Minor variations which do not affect product performance are to be expected in normal manufacture .

WARNING!

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children.

Don't pollute. Conserve resources. Return used oil and bottle to collection centers

Reference MSDS Number 12134 database on our website at www.amtecol.com

