



## DURALIFE® FOOD MACHINERY HYDRAULIC OILS

**DURALIFE® FOOD MACHINERY HYDRAULIC OILS** are tasteless, odorless, ashless, non-toxic, premium quality food grade anti-wear lubricants designed specifically for use in hydraulic systems, all types of compressors & vacuum pumps in food, feed & pharmaceutical processing, bottling and packaging industry. They are formulated from high quality food grade base oils and additives to meet the stringent requirements of the NSF International guidelines for incidental food contact.

### APPLICATIONS :

**DURALIFE® FOOD MACHINERY HYDRAULIC OILS** are recommended for high pressure hydraulic systems, compressors, vacuum pumps, 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® FOOD MACHINERY HYDRAULIC OILS** 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.
- Hydraulic Systems operating 1000 PSI and over.
- Excellent wear, corrosion and rust protection.
- Rapid water separation.
- Superior oxidation resistance.
- 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.
- Longer service life and less deposit formation and lower maintenance costs.

### TYPICAL CHARACTERISTICS :

Product Specifications	Test Method	FMAW 10	FMAW 15	FMAW 22	FMAW 32	FMAW 46	FMAW 68	FMAW 100
ISO Grade		10	15	22	32	46	68	100
Specific Gravity @ 15.6°C (60°F),	ASTM D 1298	0.86	0.862	0.863	0.865	0.865	0.868	0.87
Color	ASTM D 1500	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Viscosity	ASTM D 445							
@ 40 °C , cSt		11	15	21.5	32.5	46.5	68.2	98.3
@100 °C, cSt		2.7	3.4	4.2	5.58	6.76	8.85	11.18
@100 °F, SUS		65	83	113	169	240	354	512
@210 °F, SUS		35.4	37.7	40.4	45	48.9	56.1	64.6
Viscosity Index	ASTM D 2270	95	95	96	98	98	98	98
Flash Point, °C	ASTM D92	177	187	199	209	219	245	260
Pour Point, °C	ASTM D97	-18	-18	-15	-15	-15	-15	-18
<b>Specification &amp; Certificates</b>								
	NSF International Registration #	151919	151920	151921	151922	151691	151923	151924
	HALAL Certificate #	HPR 3376- 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 12105 database on our website at*

[www.amtecol.com](http://www.amtecol.com)

