

SEMI-SYNTHETIC FOOD GRADE GEAR LUBRICATING OILS

FOOD OILS

DESCRIPTION

FOOD OILS are water-white, non-toxic, USDA H1 lubricating oils for the lubrication of machinery used to produce, process, package and/or transport food, beverage and pharmaceuticals where incidental contact with product may occur. All the components in **FOOD OILS** are in accordance with U.S. Food and Drug Administration regulation 21 CFR 178.3570 and are authorized for use as a lubricant with incidental food contact by the USDA for use in official establishments operating under the Federal Meat and Poultry Products Inspection Program.

The USDA inspects the Meat and Poultry processing industries. Other industries adhering to USDA regulations include: Beverage Plants, Breweries, Canneries (fruit, vegetables, seafood), Sugar and Confectionery products, Grain products, Bakeries, Fats and Oils, Pharmaceuticals, Cosmetics, Personal Care and Pet Food products.

FOOD OILS are formulated using highly-refined, high purity USP white mineral oils and synthetic hydrocarbon fluids blended with anti-wear additives and rust and oxidation inhibitors.

BENEFITS

High film strength

Low volatility reduces lubricant consumption

Superior oxidation stability extends lubrication intervals

Non-gumming

High viscosity indices

Non-foaming

Food grade tackifier prevents leakage from bearings, hydraulic systems and gear boxes

APPLICATIONS

Tablet/Capsule press punches
Pumps
Gears
Food mixers
Bottlers
Canners
Packagers
Fillers
Wrappers

<u>TYPICAL PROPERTIES</u>	<u>ET-5Y</u>	<u>ET-10Y</u>	<u>ET-20Y</u>	<u>ET-30Y</u>
ISO Grade	15	46	68	100
Viscosity, ASTM D-445				
cSt @ 40° C	16.3	44.2	66.2	104.2
cSt @ 100° C	3.6	6.6	8.6	11.8
Viscosity Index	100	100	101	102
Flash Point, °F	360	410	420	480
Pour Point, °F	-25	-20	-15	-10
Rust Test, ASTM D-665 A&B	Pass	Pass	Pass	Pass
4-Ball Wear Test, ASTM D-4172				
1200 rpm, 40 kg, 167° F, 1 hr.				
Scar diameter, mm	0.55	0.55	0.55	0.55

<u>TYPICAL PROPERTIES</u>	<u>ET-Y40</u>	<u>ET-Y90</u>	<u>ET-90/140Y</u>	<u>ET-140Y</u>
ISO Grade	150	220	460	680
Viscosity, ASTM D-445				
cSt @ 40° C	157	204.4	441.4	625.5
cSt @ 100° C	15.7	19.1	35.3	47.7
Viscosity Index	102	105	119	129
Flash Point, ° F	500	510	520	530
Pour Point, ° F	-10	0	0	0
Rust Test, ASTM D-665 A&B	Pass	Pass	Pass	Pass
4-Ball Wear Test, ASTM D-4172				
1200 rpm, 40 kg, 167° F, 1 hr				
scar diameter, mm	0.55	0.55	0.55	0.55