



Orelube®

**technical
information**

ET-Y OILS

SEMI-SYNTHETIC FOOD GRADE LUBRICATING OILS

Description

Orelube ET-Y 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 ET-Y OILS are in accordance with the U.S. Food and Drug Administration regulation 21 CFR 178.3570, and are authorized for use as a lubricants 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 Confectionary products, Grain products, Bakeries, Fats and Oils, Pharmaceuticals, Cosmetics and Personal Care and Pet Food products.

ET-Y OILS are formulated using highly-refined, high purity USP white mineral oil and synthetic hydrocarbon fluids blended with antiwear 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

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The Orelube Corporation holds an exclusive worldwide license from The Boeing Company to manufacture and market the **BOELUBE®** series of lubricants.

Typical Properties	ET-5Y	ET-10Y	ET-20Y	ET-30Y
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	-5	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

Typical Properties	ET-40Y	ET-90Y	ET-90/140Y	ET-140Y
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	19.04	35.34	47.74
Viscosity Index	102	105	119	129
Flash Point, F	500	510	520	530
Pour Point, F	0	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

