



# Food Grade Hydraulic Oil

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## General Description

Food Grade Hydraulic Oil is a premium anti-wear hydraulic oil certified as USDA H1 and passing the US FDA 21 CFR 178.3620 (b) regulation for incidental contact with food products. This product is also Kosher certified by the Union of Orthodox Jewish Congregations of America.

Food Grade Hydraulic Oil is an ashless oil comprised of base stocks that are U.S.P. quality white mineral oils combined with specialized additives to supplement the operating performance and still maintain approval under the USDA H1 constraints. The additives used include rust and corrosion inhibitors to protect metal parts along with anti-wear and extreme pressure enhancers to improve load carrying capability.

Food Grade Hydraulic Oil is not approved for use under direct food contact applications.

## Features and Benefits

- **Food Grade:** Meets the requirements of US FDA regulation 21 CFR 178.3620 (b) and USDA H1 for incidental contact use in food plants.
- **Oxidation Inhibitor:** A special Vitamin E oxidation inhibitor is used to extend oil life and reduce depositing tendencies.

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## Typical Applications

This product is designed for general lubrication in machines and applications where incidental contact with edible products is possible, as USDA H1 approval permits. Some of the typical applications of this product include vegetable processing, meat and food packing, fruit harvesting machinery and cheese, dairy and egg processing plants. Cenex® Food Grade Hydraulic Oil meets or exceeds:

- Halal
- Kosher Pareve
- NSF H1
- Angelus Sanitary Can Machine (PHY0272AA-PHY0274AA)
- EX-Cell-O Corp Pure-Pak Machine (PHY0273AA)
- Hydreco (PHY0271AA)

## Typical Customers

- Fruit and vegetable growers
- Food production and handling facilities
- Dairy and egg processing plants

## Typical Properties

SAE Grade / ISO VG	10 / 46	30 / 100
Relative Density @ 60°F/60°F, ASTM D1298	0.860	0.880
Viscosity @ 100°C, cSt, ASTM D445	6.82	11.46
Viscosity @ 40°C, cSt, ASTM D445	45.37	98.01
Viscosity Index ASTM D2270	105	104
Flash Point °C (°F) (COC), ASTM D92	204 (399)	227 (441)
Pour Point °C (°F), ASTM D97	-36 (-33)	-30 (-22)
Rust Test 4 hrs @ 60°C, ASTM D665A	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b	1b
Oxidation by RPVOT @ 150°C, minutes, ASTM D2272	800	800
Four-Ball Wear @ 75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172	>12	>12
Four-Ball Wear @ 75°C, 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172	0.38	0.38

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

## Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit [cenex.com/sds-library](http://cenex.com/sds-library).