



ISO-9001 Registered Quality System.  
ISO-21469 Compliant.

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## PRODUCT DATA

# LUBRIPLATE SYN-H1-220

"This product is certified OU Kosher Pareve"  
"This product is Halal certified"

\*NSF International H-1 Registered  
NSF ISO21469 Certification

## DESCRIPTION

LUBRIPLATE SYN-H1-220 is a Polyalkylene Glycol (PAG) based synthetic, bearing and gearbox lubricant specifically designed for use where elevated temperatures exist and the need for a Food Grade lubricant is required. LUBRIPLATE SYN-H1-220 is specifically formulated for food processing equipment where there is the possibility of incidental food contact and is manufactured with ingredients which comply with FDA 21 CFR 178.3570 and NSF H-1 requirements.

## APPLICATIONS

LUBRIPLATE SYN-H1-220 is recommended for bearings and gearboxes that are exposed to temperatures up to 400°F for extended periods of time.

## ADVANTAGES

With its excellent load carrying capacity, 12 Stages Passed on FZG Four Square Gear Test; you can be assured that your bearings and gears have the utmost protection from wear even under the most severe operating conditions. LUBRIPLATE SYN-H1-220 has excellent lubricity which decreases friction and lowers bulk oil temperatures. It also has outstanding thermal and oxidative stability which allows for its longer service life.

## CHANGEOVER PROCEDURE

LUBRIPLATE SYN-H1-220 is compatible with minor amounts of petroleum oils. However, to achieve maximum performance from LUBRIPLATE SYN-H1-220, it is suggested that the following procedure be followed when converting from petroleum oil based lubricants in a reservoir system such as bearing housing or gearbox:

- 1) Drain previous lubricant from equipment while still warm.
- 2) Replace any filter if applicable.
- 3) Fill equipment reservoir with LUBRIPLATE SYN-H1-220. Run under normal operating conditions for 24 hours. LUBRIPLATE SYN-H1-220 will generally clean any varnish and sludge which may have been left behind by the petroleum oil.
- 4) Thoroughly drain the reservoir while still warm.
- 5) Inspect the oil filters, if applicable, and replace as needed.
- 6) Fill the reservoir with fresh LUBRIPLATE SYN-H1-220 and begin normal operation

## COMPATIBILITY

LUBRIPLATE SYN-H1-220 is compatible with most elastomers used in seals and gaskets. Below is a list of the most common elastomers which are suitable for use with LUBRIPLATE SYN-H1-220:

Viton	Buna N
Kalrez	Hycar
Silicone	Hypalon
Polysulfide	Natural Black Rubber
EPR	Natural Red Rubber
Butyl Rubber	Buna S
Natural Gum Rubber	Neoprene

## Typical Test Data

PROPERTY	TEST METHOD	TYPICAL RESULTS*
Viscosity: SUS @ 100°F	ASTM D-2161	1310
cSt @ 40°C	ASTM D-445	252
SUS @ 210°F	ASTM D-2161	188
cSt @ 100°C	ASTM D-445	40.7
Viscosity Index	ASTM D-2270	212
Color	ASTM D-1500	L-0.5
ISO Grade		220/320
API Gravity	ASTM D-287	9.44
Flash Point	ASTM D-92	>540°F/>282°C
Pour Point	ASTM D-97	-20°F/-29°C
FZG Four Square Gear Test Stage Passed	DIN 51354	12
Turbine Oil Rust Test (A & B)	ASTM D-665	Pass

## PACKAGING AVAILABLE

5 Gallon Pail

55 Gallon Drum

\*NSF International H-1 Registration No. **138317**

(Meets former USDA 1998 Guidelines)

\*Registered H-1 by NSF International for use in food processing facilities as a lubricant or anti-rust agent on equipment in which there may be incidental contact involving the lubricated part and the edible product.

"LUBRIPLATE SYN-H1-220 contains no components derived from TSE/BSE relevant animal species; therefore, it is compliant with the requirements of the TSE Note for Guidance EMA/410/01 Rev. 3 July 2011".

## STORAGE RECOMMENDATIONS

1. Products should be stored between 40°F-120°F.
2. Products should be stored in a dry covered environment.
3. Products should not be stored in warm, direct sunlight.
4. improper storage conditions can significantly alter the shelf life of the product. Such conditions would include temperature, moisture, open containers, etc.



Nonfood Compounds  
H1 Registered  
ISO 21469 Certified



PAREVE



HALAL