

TECHNICAL DATA SHEET | INDUSTRIAL

Engen FoodPure FG Fluid Series

H1 registered for incidental contact with foodstuffs



Food Grade



PETRONAS

Engen is a
member of the
PETRONAS Group

Description

FOODPURE FG FLUIDS are a high-performance blend of food grade white oils fortified with the latest additive technology giving outstanding wear resistance and EP properties required for modern hydraulic and circulating systems. They are registered to H1 for incidental food contact for use in applications in and around food, beverage and pharmaceutical processing and production areas.

Application

FOODPURE FG FLUIDS are designed for hydraulic and circulating systems in the food and clean industries operating at wide temperature ranges. The lubricants have high resistance to wear and load normally experienced in hydraulic systems. The additive package gives enhanced corrosion protection properties and supports manufacturer's requirements for HACCP and GMP programmes.

Including:

- All hydraulic systems.
- Low loaded oil lubricated bearings.
- Valve Lubrication.
- General purpose oil lubrication.
- Variable speed drives requiring low viscosity oils.
- Process machinery (Bottling and Canning).
- Pneumatic tools and air line systems (ISO22 & 32).

Benefits & Features

- H1 Registered. Safe to use where incidental food contact may occur.
- Excellent water resistance. Extends bearing, gears and gearbox life.
- Good air release properties. Enhanced lubricity and elongates component life.
- Excellent wear protection. Elongates gears and bearing life.
- Oxidation and corrosion inhibited Increases oil life & protects gearbox against corrosion.

Performance Level

FOODPURE FG FLUIDS are NSF H1 Registered for incidental food contact, Halal Certified, Kosher Certified, manufactured to ISO 9001:2015 and ISO 21469 and meet the requirements of FDA 21 CFR 178.3570. FOODPURE FG FLUIDS meet or exceed the requirements of ISO-L-HV (according to ISO 6743-4) and HLP (to DIN 51524-2).

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Typical Physical Characteristics

FOODPURE FG FLUIDS ISO VG 15 - 32					
PARAMETERS	METHODS	UNITS	TYPICAL VALUES		
			ISO VG 15	ISO VG 22	ISO VG 32
Viscosity at 40°C	ASTM D445	cSt	15	22	32
Viscosity at 100°C	ASTM D445	cSt	4	4	5
Viscosity Index	ASTM D2270	-	116	108	106
Density at 15°C	ASTM D1298	g/cm3	0.84	0.86	0.87
Pour Point	ASTM D97	°C	-44	-43	-42
Flash Point	ASTM D92	°C	198	198	222
Copper Strip Corrosion 3h @ 100°C	ASTM D130	-	1a	1a	1a
Demulsibility	ASTM D1401	minutes	<10	<10	<30
4 Ball Wear Scar Diameter	ASTM D4172	mm	0.41	0.4	0.33
FZG Scuffing A/8.3/90	DIN 51534-2	FLS	ND	ND	12
Temperature Range	-	°C	-30 to +140	-25 to +140	-25 to +140

FOODPURE FG FLUIDS ISO VG 15 - 32					
PARAMETERS	METHODS	UNITS	TYPICAL VALUES		
			ISO VG 46	ISO VG 68	ISO VG 100
Viscosity at 40°C	ASTM D445	cSt	46	68	100
Viscosity at 100°C	ASTM D445	cSt	4	4	5
Viscosity Index	ASTM D2270	-	106	107	105
Density at 15°C	ASTM D1298	g/cm3	0.87	0.87	0.88
Pour Point	ASTM D97	°C	-20	-20	-15
Flash Point	ASTM D92	°C	232	250	260
Copper Strip Corrosion 3h @ 100°C	ASTM D130	-	1a	1a	1a
Demulsibility	ASTM D1401	minutes	<30	<30	10
4 Ball Wear Scar Diameter	ASTM D4172	mm	0.34	0.33	0.34
FZG Scuffing A/8.3/90	DIN 51534-2	FLS	12	12	12
Temperature Range	-	°C	5 to +140	-5 to +140	-5 to +140

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to Engen's specification, variations in these characteristics may occur.

11.2021

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Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information.

All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.

For more information about this product and other products in our range please scan the following:



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