

TECHNICAL DATA SHEET | INDUSTRIAL

# Engen Gengear XEP Series

*Enhanced Heavy Duty Industrial Gear Lubricants*



Extreme  
Pressure



Heavy  
Loads



Corrosion  
Protection



**PETRONAS**

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## Description

Gengear XEP Series are top-quality, heavy-duty gear oils designed to lubricate modern industrial gearboxes. They are fully approved by Flender (Revision 13, 2012) and meet all the major industrial gear oil specifications. Gengear XEP grades incorporate the latest technology additive system, providing clean gear performance and excellent protection against micro-pitting wear. These are key requirements of modern industrial gear oils. They offer strong rust and corrosion protection, enhanced oxidation stability and resistance to foaming, whilst significantly prolonging bearing life. Inherent friction modifying characteristics add to the attributes of the range, resulting in reduced power consumption and lower bulk oil temperatures. Compatibility with seal elastomers is critical to prevent leakage and exclusion of contaminants – Gengear XEP grades excel in this respect.

## Benefits & Features

- Outstanding protection against micro-pitting.
- Excellent load carrying ability.
- Corrosion protection.
- Excellent anti-foam characteristics.
- Compatible with petroleum oils and paints, gaskets, and seals.

## Application

Gengear XEP oils are recommended for all industrial helical and spur enclosed gear sets with circulation or splash lubrication systems Found in:

- Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps, screens, extruders, and other heavy-duty applications
- Marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators, and rudder carriers

Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds

Moderately loaded worm type gear sets.

## Performance Level

Meets or exceeds the following Industry Standards:

- AISE 224 (formerly USS 224)
- ANSI/AGMA 9005 (Table 3)
- David Brown S1.53.101
- DIN 51517 Part 3 CLP
- GB 5903-2011 L-CKD
- ISO 12925-1 CKD

Builder Approvals & Specifications:

- Siemens T 7300 Table A-1, Rev.13
- Flender Gear Units
- Renk ZAN 36011

With us you are Number One



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## Typical Physical Characteristics

ENGEN GENGEAR XEP SERIES							
PARAMETERS	METHODS	UNITS	TYPICAL VALUES				
ISO Viscosity Grade	ISO 3448	-	150	220	320	460	680
Viscosity @ 40°C	ASTM D445	cSt	140	210	305	440	650
Viscosity @ 100°C	ASTM D445	cSt	14,5	18,3	23,3	30,0	36,0
Viscosity Index	ASTM D2270	-	100	100	100	100	100
Flash Point, min.	ASTM D92	°C	>200	>200	>200	>200	>200
Pour Point, max.	ASTM D5950	°C	-24	-18	-15	-6	-6
Density @ 20°C	ASTM D4052	g/cm3	0.887	0.890	0.900	0.902	0.915
FZG Scuffing, Fail Load Stage, A/8.3/90	DIN 51534	-	+12	+12	+12	+12	+12
ASTM Rust Test B (Sea Water)	ASTM D665	-	Pass	Pass	Pass	Pass	Pass
Foam Test, Seq I Tendency /stability	ASTM D892	ml/ml	0/0	0/0	0/0	0/0	0/0
Water Separability, Min. to 3 ml emulsion @ 82°C	ASTM D1401	min	20	20	20	30	30
AGMA No.	-	-	4EP	5EP	6EP	7EP	8EP

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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.

## 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 tortious 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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