



Meropa® XL

High Performance Industrial Gear Oil

Product Data Sheet

Benefits

Meropa® XL gear oils deliver value through:

- **Premium performance** – Advanced micropitting resistant formulation provides excellent wear protection, rust and corrosion protection, demulsibility, and foam inhibition. Leading to optimum lubricant performance and equipment protection; maintaining designed equipment productivity.
- **Excellent thermal stability** – Blend of premium Group II and Synthetic base oils engineered with advanced additive technologies help maintain clean gear and bearing surfaces, minimizing deposits which interfere with effective lubrication and reduce gear set efficiencies. High oxidation stability limits in-service viscosity increases, which can lead to energy losses.
- **Expanded operating temperature** – High viscosity index provides optimal viscosity over a wider operating temperature range offering enhanced protection under variable conditions and low temperature fluidity for low temperature operations.

Applications

Meropa® XL oils are recommended for:

- Industrial enclosed gearing where an AGMA EP lubricant is specified
- Industrial enclosed gearing where DIN 51517 (CLP) lubricant is specified
- Bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade
- Marine gearboxes and non-gearred systems requiring an extreme pressure lubricant

Product description:

Meropa® XL gear oils are high performance synthetic blend extreme pressure gear oils with excellent load carrying capacity, micropitting wear protection, water demulsibility, oxidation stability, and corrosion protection. Meropa® XL gear oils are designed for many types of industrial and marine, geared and non-gearred lubrication services where extreme loads and shock loadings are high.

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Performance standards

- ANSI/AGMA EP 9005-F16
- Fives Cincinnati (Cincinnati Machine)
- DIN 51517 Part 3 (CLP)
- ISO 12925-1
- US Steel 224
- Joy Mining Machinery TO-
- Sumitomo Drive Technologies - listed for Paramax Gear Boxes
- SMS Group SN 180-2 (ISO 68, 150, 220, 320)
- ZF TE-ML 04H (ISO 150)
- Siemens Rev. 15 (Approval No. A-CH: A-20160404)

(Table A-a Standard Mineral Oils for FLENDER helical, bevel-helical, planetary gear boxes and 'Marine gear units without multi-disk clutches' as well as geared motors)

Meropa® XL has a typical sulfur-phosphorus odor characteristic of industrial gear oils. A ventilated environment is recommended during use.



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Typical test data

MEROPA XL					
TEST	TEST METHODS	RESULTS			
ISO Grade	ASTM	68	100	150	220
Product Code		533276	533277	533278	533279
Cincinnati Machine (MAG) Spec.		P-63	P-76	P-77	P-74
Siemens MD FLENDER Code No.		-	-	A16	A15
Joy Mining Machinery		-	-	-	MEP
AGMA Grade		2 EP	3 EP	4 EP	5 EP
Density, 15°C, kg/L	D1298	0.87	0.87	0.87	0.867
Viscosity, Kinematic					
cSt at 40°C	D445	68	100	150	220
cSt at 100°C	D445	9.1	12.0	16.3	22.3
Viscosity Index	D2270	110	110	115	120
Flash Point, °C	D92	224	230	250	248
Pour Point, °C	D97	-26	-26	-36	-37
FZG Pass Stage	D5182	-	-	>12	>12
Micropitting Test, FVA 54 I-IV	-	-	-	10/High	10/High
Rust Protection	D665A/B	Pass	Pass	Pass	Pass
Demulsibility	D1401	Pass	Pass	Pass	Pass
Foam Test, Seq I-III	D892	<50/0	<50/0	<50/0	<50/0

continued

Typical test data

MEROPA XL				
TEST	TEST METHODS	RESULTS		
ISO Grade	ASTM	320	460	680
Product Code		533280	533281	533283
Cincinnati Machine (MAG) Spec.		P-59	P-35	P-34
Siemens MD FLENDER Code No.		A14	A13	A12
Joy Mining Machinery		HEP	HD	-
AGMA Grade		6 EP	7 EP	8 EP
Density, 15°C, kg/L	D1298	0.878	0.88	0.88
Viscosity, Kinematic				
cSt at 40°C	D445	320	460	680
cSt at 100°C	D445	29.7	37.3	50.0
Viscosity Index	D2270	124	127	127
Flash Point, °C	D92	248	247	238
Pour Point, °C	D97	-37	-36	-33
FZG Pass Stage	D5182	>12	>12	>12
Micropitting Test, FVA 54 I-IV	-	10/High	10/High	10/High
Rust Protection	D665A/B	Pass	Pass	Pass
Demulsibility	D1401	Pass	Pass	Pass
Foam Test, Seq I-III	D892	<50/0	<50/0	<50/0

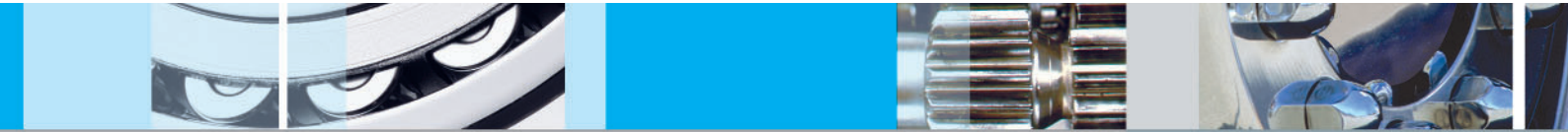
This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

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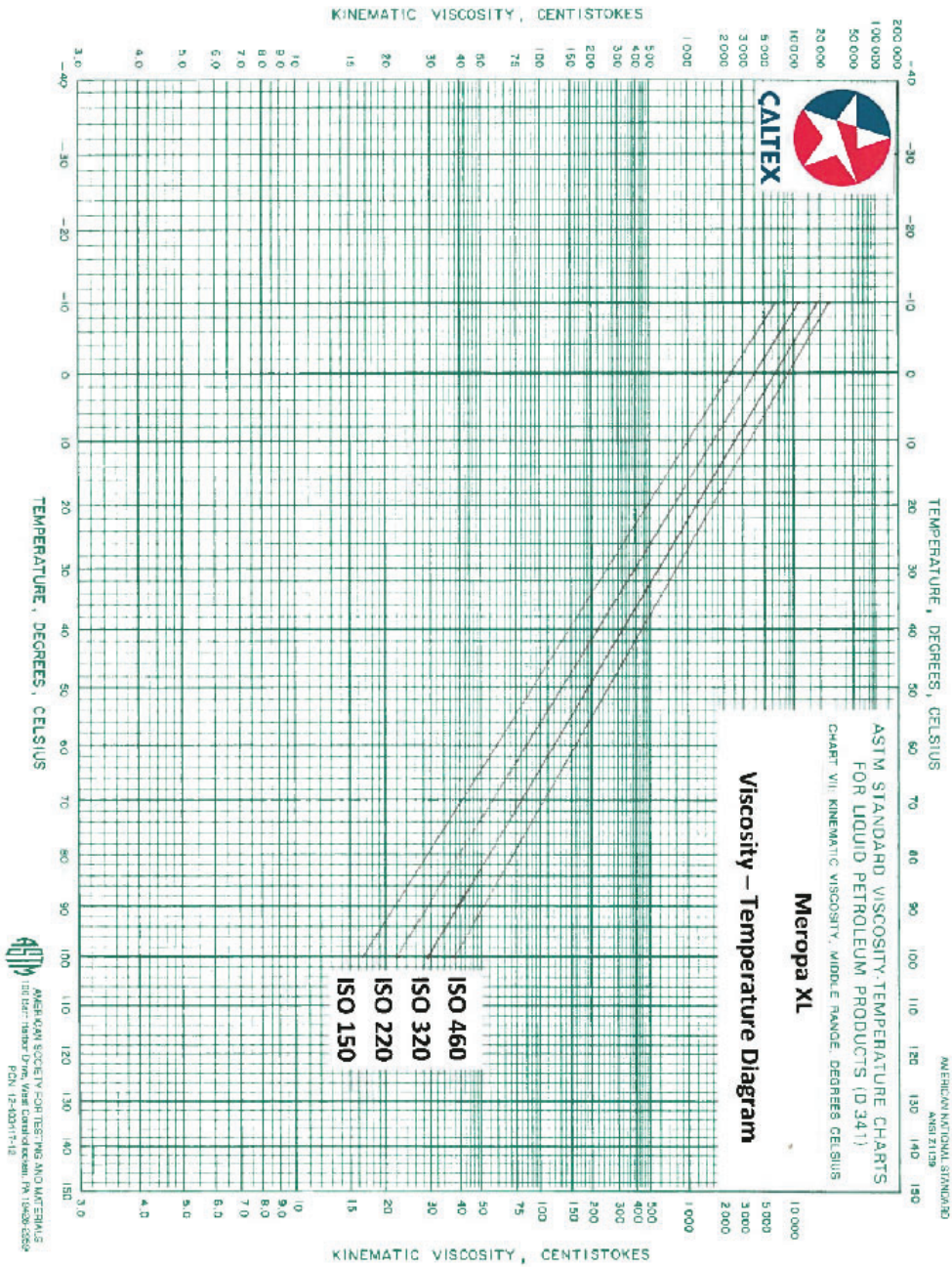
Environment, Health and Safety Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com.



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For more information, go to www.chevronlubricants.com

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