

**Approved lubricants**

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**Freigegebene Schmierstoffe**

**T 7300**










**Table A-a Standard mineral oils for FLENDER helical, bevel-helical, planetary gear boxes and 'Marine gear units without multi-disk clutches' - API-group = I or II**










**Tabelle A-a Standardmineralöle für FLENDER Stirnrad-, Kegelrad-, Planetengetriebe und 'Marinegetriebe ohne Lamellenkupplung' - API-Gruppe = I oder II**










revision: 29 September 2023









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Brand name	Viscosity class DIN ISO 3448 at 40 °C (mm2/s). --- Viskositätsklasse DIN ISO 3448 bei 40 °C (mm2/s)						
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000
Markenname	FLENDER Code No. --- FLENDER-Kennziffer						
	A17	A16	A15	A14	A13	A12	A11
Mineral oils --- Mineralöle							
 Addinol		Gear Oil 150 F	Gear Oil 220 F	Gear Oil 320 F	Gear Oil 460 F	Gear Oil 680 F	
			ECO GEAR 220 M	ECO GEAR 320 M	ECO GEAR 460 M	ECO GEAR 680 M	
 Advanced Lubrication Specialties		ADVANTAGE AMP GEAR OIL M15	ADVANTAGE AMP GEAR OIL M22	ADVANTAGE AMP GEAR OIL M32	ADVANTAGE AMP GEAR OIL M46	ADVANTAGE AMP GEAR OIL M68	
 Aegean Oil SA		VALESCO EP 150	VALESCO EP 220	VALESCO EP 320	VALESCO EP 460	VALESCO EP 680	
 AXCL GULF FZC				AXCL INDUSTRIAL GEAR OIL ISO VG 320 FDR			
 Balmer Lawrie			Balmerol Protogear AM 220	Balmerol Protogear AM 320	Balmerol Protogear AM 460		
 BayWa AG		TECTROL GEAR CLP PLUS 150	TECTROL GEAR CLP PLUS 220	TECTROL GEAR CLP PLUS 320	TECTROL GEAR CLP PLUS 460		
 Bharat Petroleum			MAK Amocam Plus 220	MAK Amocam Plus 320	MAK Amocam Plus 460		
 Brugarolas S.A.	Beslux Gear XPM 100	Beslux Gear XPM 150	Beslux Gear XPM 220	Beslux Gear XPM 320	Beslux Gear XPM 460	Beslux Gear XPM 680	Beslux Gear XPM 1000
 Caltex		Caltex Meropa XL 150	Caltex Meropa XL 220	Caltex Meropa XL 320	Caltex Meropa XL 460	Caltex Meropa XL 680	
		Caltex Meropa MG 150	Caltex Meropa MG 220				

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		<b>Tabelle A-a Standardmineralöle für FLENDER Stirnrad-, Kegelrad-, Planetengetriebe und 'Marinegetriebe ohne Lamellenkupplung' - API-Gruppe = I oder II</b>						<b>2023-09-29</b>
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<b>Brand name</b>	<b>Viscosity class DIN ISO 3448 at 40 °C (mm<sup>2</sup>/s). --- Viskositätsklasse DIN ISO 3448 bei 40 °C (mm<sup>2</sup>/s)</b>							
	<b>ISO VG 100</b>	<b>ISO VG 150</b>	<b>ISO VG 220</b>	<b>ISO VG 320</b>	<b>ISO VG 460</b>	<b>ISO VG 680</b>	<b>ISO VG 1000</b>	
<b>Markenname</b>	<b>FLENDER Code No. --- FLENDER-Kennziffer</b>							
	<b>A17</b>	<b>A16</b>	<b>A15</b>	<b>A14</b>	<b>A13</b>	<b>A12</b>	<b>A11</b>	
<b>Mineral oils --- Mineralöle</b>								
 <b>Castrol</b>		Alpha SP 150	Alpha SP 220	Alpha SP 320	Alpha SP 460			
		Optigear BM 150	Optigear BM 220	Optigear BM 320	Optigear BM 460			
 <b>CEPSA</b>			ENGRANAJES XMP 220	ENGRANAJES XMP 320	ENGRANAJES XMP 460			
				AEROGEAR 320				
 <b>Chevron</b>		Chevron Meropa XL 150	Chevron Meropa XL 220	Chevron Meropa XL 320	Chevron Meropa XL 460	Chevron Meropa XL 680		
		Chevron Meropa MG 150	Chevron Meropa MG 220					
 <b>Cogelsa</b>			ULTRAGEAR EP 220	ULTRAGEAR EP 320	ULTRAGEAR EP 460			
 <b>Engen Petroleum Ltd.</b>		Gengear XEP 150	Gengear XEP 220	Gengear XEP 320	Gengear XEP 460	Gengear XEP 680		
 <b>Fuchs</b>		RENOLIN CLP 150	RENOLIN CLP 220	RENOLIN CLP 320	RENOLIN CLP 460	RENOLIN CLP 680		
		RENOLIN HighGear 150	RENOLIN HighGear 220	RENOLIN HighGear 320	RENOLIN HighGear 460	RENOLIN HighGear 680		
			RENOLIN CLP VCI 220 (*)	RENOLIN CLP VCI 320 (*)	RENOLIN CLP VCI 460 (*)			
		RENOLIN CLP 150 Plus	RENOLIN CLP 220 Plus	RENOLIN CLP 320 Plus	RENOLIN CLP 460 Plus			
 <b>Fuchs Lubritech</b>		GEARMASTER CLP 150	GEARMASTER CLP 220	GEARMASTER CLP 320	GEARMASTER CLP 460	GEARMASTER CLP 680		

\*) This oil is approved for short time usage (e. g. end-of-line testing). For long term usage customers must contact the lubricant manufacturer.

FLENDER gear units	Table A-a Standard mineral oils for FLENDER helical, bevel-helical, planetary gear boxes and 'Marine gear units without multi-disk clutches' - API-group = I or II						T 7300
	Tabelle A-a Standardmineralöle für FLENDER Stirnrad-, Kegelrad-, Planetengetriebe und 'Marinegetriebe ohne Lamellenkupplung' - API-Gruppe = I oder II						2023-09-29
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Brand name	Viscosity class DIN ISO 3448 at 40 °C (mm2/s). --- Viskositätsklasse DIN ISO 3448 bei 40 °C (mm2/s)						
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000
Markenname	FLENDER Code No. --- FLENDER-Kennziffer						
	A17	A16	A15	A14	A13	A12	A11
Mineral oils --- Mineralöle							
 Gulf Oil International		Gulf GEARTEK WT 150	Gulf GEARTEK WT 220	Gulf GEARTEK WT 320	Gulf GEARTEK WT 460	Gulf GEARTEK WT 680	
 Hermann Bantleon		AVIA GEAR RSX-F 150	AVIA GEAR RSX-F 220	AVIA GEAR RSX-F 320	AVIA GEAR RSX-F 460	AVIA GEAR RSX-F 680	
 Hindustan Petroleum		PARTHAN ML 150	PARTHAN ML 220	PARTHAN ML 320	PARTHAN ML 460	PARTHAN ML 680	
		PARTHAN EP 150 MA	PARTHAN EP 220 MA	PARTHAN EP 320 MA	PARTHAN EP 460 MA		
 Indian Oil		Servomesh Gold 150	Servomesh Gold 220	Servomesh Gold 320	Servomesh Gold 460	Servomesh Gold 680	
 JAX		JAX H-P Industrial Gear Oil 150	JAX H-P Industrial Gear Oil 220	JAX H-P Industrial Gear Oil 320	JAX H-P Industrial Gear Oil 460	JAX H-P Industrial Gear Oil 680	
 Lukoil Lubricants			LUKOIL STEELO HST 220	LUKOIL STEELO HST 320	LUKOIL STEELO HST 460	LUKOIL STEELO HST 680	
		LUKOIL STEELO PLUS 150	LUKOIL STEELO PLUS 220	LUKOIL STEELO PLUS 320	LUKOIL STEELO PLUS 460		
 LOTOS OIL			TRANSMIL EXTRA XSP 220	TRANSMIL EXTRA XSP 320	TRANSMIL EXTRA XSP 460	TRANSMIL EXTRA XSP 680	TRANSMIL EXTRA XSP 1000
 Mobil		Mobilgear 600 XP 150	Mobilgear 600 XP 220	Mobilgear 600 XP 320	Mobilgear 600 XP 460	Mobilgear 600 XP 680	
 MOL-LUB Ltd.		MOL Ultrans EP 150	MOL Ultrans EP 220	MOL Ultrans EP 320	MOL Ultrans EP 460		

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<b>Markenname</b>	<b>FLENDER Code No. --- FLENDER-Kennziffer</b>							
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<b>Mineral oils --- Mineralöle</b>								
 <b>MOTOREX</b>		MOTOREX YORK GEAR COMPOUND PLUS 150	MOTOREX YORK GEAR COMPOUND PLUS 220	MOTOREX YORK GEAR COMPOUND PLUS 320	MOTOREX YORK GEAR COMPOUND PLUS 460	MOTOREX YORK GEAR COMPOUND PLUS 680		
 <b>Olma d.o.o.</b>		OLMAREDOL FL 150	OLMAREDOL FL 220	OLMAREDOL FL 320	OLMAREDOL FL 460	OLMAREDOL FL 680		
 <b>Pertamina</b>		MASRI FLG 150	MASRI FLG 220	MASRI FLG 320	MASRI FLG 460			
 <b>PetroChina</b>		KunLun KPM Heavy-duty Industrial Gear Oil 150	KunLun KPM Heavy-duty Industrial Gear Oil 220	KunLun KPM Heavy-duty Industrial Gear Oil 320	KunLun KPM Heavy-duty Industrial Gear Oil 460	KunLun KPM Heavy-duty Industrial Gear Oil 680		
 <b>PETROGAL</b>		GALP TRANSGEAR FA 150	GALP TRANSGEAR FA 220	GALP TRANSGEAR FA 320	GALP TRANSGEAR FA 460			
 <b>Petrol Ofisi</b>		Gravis MP 150	Gravis MP 220	Gravis MP 320	Gravis MP 460	Gravis MP 680		
 <b>Petronas</b>		Petronas Gear FL 150	Petronas Gear FL 220	Petronas Gear FL 320	Petronas Gear FL 460	Petronas Gear FL 680		
 <b>PTTOR PTT Oil and Retail</b>		Drivera SF 150	Drivera SF 220	Drivera SF 320	Drivera SF 460	Drivera SF 680		

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Mineral oils --- Mineralöle							
 Raloy Lubricantes			Raloy Wind Turbines 220	Raloy Wind Turbines 320	Raloy Wind Turbines 460		
 Shell	Omala S2 GX 100	Omala S2 GX 150	Omala S2 GX 220	Omala S2 GX 320	Omala S2 GX 460	Omala S2 GX 680	
 Sinopec			Great Wall AP 220	Great Wall AP 320	Great Wall AP 460		
 Sunoco Lubricants		SUNOCO SUNEP MPT GEAR OIL M153	SUNOCO SUNEP MPT GEAR OIL M223	SUNOCO SUNEP MPT GEAR OIL M323	SUNOCO SUNEP MPT GEAR OIL M463	SUNOCO SUNEP MPT GEAR OIL M683	
 Monarch Tongyi Petroleum		TONGYI TERRICA Micropitting Resistant Gear Oil 150	TONGYI TERRICA Micropitting Resistant Gear Oil 220	TONGYI TERRICA Micropitting Resistant Gear Oil 320			
 Texaco		Texaco Meropa XL 150	Texaco Meropa XL 220	Texaco Meropa XL 320	Texaco Meropa XL 460	Texaco Meropa XL 680	
		Texaco Meropa MG 150	Texaco Meropa MG 220				
 TotalEnergies		CARTER XEP 150	CARTER XEP 220	CARTER XEP 320	CARTER XEP 460	CARTER XEP 680	
		CARTER EP 150	CARTER EP 220	CARTER EP 320	CARTER EP 460	CARTER EP 680	
 Quaker Houghton Verkol		COMPOUND MP-150	COMPOUND MP-220	COMPOUND MP-320	COMPOUND MP-460		