

# TOTALCO (SFZ)LLC



ENMAR MARINE LUBRICANTS PRODUCT LIST

# ENMAR MARINE LUBRICANTS

ENMAR is a wide range of marine lubricants with a high-quality formulation and performance. Our products meet the requirements of major OEMs.

We permanently expand and optimize our supply network to find the most effective deliver solutions in the right place, right time and on budget.

Enmar Cylinder Oil							
Grade	SAE or ISO VG	Kinematic Viscosity mm <sup>2</sup> /s 40°C	Viscosity mm <sup>2</sup> /s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	Base No.
Enmar CY  540	50	214	19,2	-	230	-9	40
Enmar CY  570	50	213	19,2	-	230	-9	70
Enmar CY  5100	50	205	19,5	-	280	-12	100
Enmar CY  525	50	213	19,2	-	230	-9	25
ENMAR CY  is high alkaline cylinder lubricating oil for the lubrication of modern large bore turbocharged crosshead two stroke engines. The oil is blended from highly refined base oils having maximum film strength and modern complex detergent technology additives to provide high performance protection against cylinder scuffing and effective acid neutralising properties where high sulphur fuels are used.							
Enmar CY  525 is low alkaline cylinder lubricating oils for the lubrication of low speed two stroke engines running on distillates fuels with sulphur content up to 0.1%. The oil is blended from highly refined base oils having maximum film strength and modern complex detergent technology additives to provide high performance protection against cylinder scuffing and effective acid neutralising properties where high sulphur fuels are used.							
Enmar System Oil							
Grade	SAE or ISO VG	Kinematic Viscosity mm <sup>2</sup> /s 40°C	Viscosity mm <sup>2</sup> /s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	Base No.
Enmar SMO 30	30	99,6	11,5	99	246	-15	5,5
ENMAR SMO is a SAE 30, 5-6 TBN high quality marine engine system oil developed for high output, low speed, two-stroke crosshead diesel engines burning residual fuel. The system oil has a special low ash detergent/dispersant additive combination to control oxidation and sludge, deposit formation in the crankcase, crosshead, and piston under-crown during oil cooling.							
Enmar Trunfi Piston Oil							
Grade	SAE or ISO VG	Kinematic Viscosity mm <sup>2</sup> /s 40°C	Viscosity mm <sup>2</sup> /s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	TBN
Enmar  SF 312	30	105,7	11,9	100	248	-16	12
Enmar  SF 412	40	145,4	14,6	99	250	-15	12
Enmar  SF 315	30	105,7	11,9	100	248	-17	10
Enmar  SF 415	40	145,4	14,6	99	250	-15	15
Enmar MSDO 320	30	104,3	11,6	-	240	-15	20
Enmar MSDO 330	30	106,3	11,5	-	252	-15	30
Enmar MSDO 340	30	102,2	11,3	-	250	-15	40
Enmar MSDO 420	40	147	14,5	-	252	-15	20
Enmar MSDO 430	40	146	14,5	-	252	-15	30
Enmar MSDO 440	40	145,2	14,6	-	254	-15	40
Enmar MSDO 450	40	143	14,6	-	250	-15	50
Enmar Super Duty 40	40	139	14,75	106	242	-30	10,5
ENMAR  SF are a range of high-performance Marine Engine oils developed for high output, Trunk Piston Diesel Engines burning distillate or medium sulphur heavy gas oil fuel. They incorporate proven performance dispersant and detergent technology developed to provide long life lubrication in modern and older engines that are operating in coastal shipping or power generation applications.							
ENMAR MSDO are a range of new generation high performance engine oils for all types of marine medium speed diesel engines operating on high sulphur residual fuels. They have been developed from the latest complex dispersant and detergent technology to provide long lubrication life and enhanced engine performance particularly in low emission engines and those with anti-bore glazing piston designs.							
ENMAR SUPER DUTY 40 is a monograde diesel engine oil developed for the lubrication of for the highest output diesel engines, it is formulated to give better engine protection and longer drain intervals special for marine fast vessels and generators.							
Enmar Hydraulic Oil							
Grade	ISO Grade	Kinematic Viscosity mm <sup>2</sup> /s 40°C	Viscosity mm <sup>2</sup> /s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	FZG Damage load Stage
Enmar Hydraulic HVI 15	15	15	3,9	>150	160	-42	11
Enmar Hydraulic HVI 22	22	22	4,8	>150	198	-36	11
Enmar Hydraulic HVI 32	32	32	6,2	>150	206	-36	11
Enmar Hydraulic HVI 46	46	46	8,1	>150	210	-36	11
Enmar Hydraulic HVI 68	68	68	10,8	>150	216	-33	11
Enmar Hydraulic HVI 100	100	100	14,1	>150	224	-27	11
ENMAR MARINE HYDRAU IC HVI is a range of high performance, high viscosity index hydraulic oils with very low pour points. The key benefit is that they will lubricate in arduous working conditions and in extremes of temperature where shear stable high viscosity index antiwear type hydraulic oils are essential for high pressure systems. ENMAR MARINE HYDRAU IC HVI oils have been developed to meet the performance requirements of major hydraulic equipment manufacturers.							
Enmar Gear Oil							
Grade	ISO Grade	Kinematic Viscosity mm <sup>2</sup> /s 40°C	Viscosity mm <sup>2</sup> /s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	FZG load Stage
Enmar Marine Gear 68	68	68	8,5	95	228	-15	12
Enmar Marine Gear 100	100	100	11	95	236	-15	12
Enmar Marine Gear 150	150	150	14,7	95	236	-15	12
Enmar Marine Gear 220	220	220	18,6	95	240	-15	12
Enmar Marine Gear 320	320	320	24	98	248	-12	12
Enmar Marine Gear 460	460	460	30	96	252	-12	12
Enmar Marine Gear PG 220	220	222	34,4	203	278	-39	>12
Enmar Marine Gear PG 150	150	142	26,5	210	280	-48	-
Enmar Marine Gear SH 150	150	150	19	145	260	-42	13+
Enmar Marine Gear SH 220	220	220	25	150	265	-39	13+
Enmar Marine Gear SH 320	320	320	33	150	265	-36	13+
Enmar Marine Gear SH 460	460	460	44	155	270	-33	13+
Enmar Marine Gear SH 680	680	680	65	155	270	-24	13+
ENMAR MARINE GEAR oils are a range of premium quality, heavy duty industrial gear oils which have been developed for the lubrication of enclosed gears, working under both normal and severe operating conditions. They are formulated from high quality paraffinic base oils and incorporate mild extreme pressure Sulphurphosphorus chemical technology. ENMAR MARINE GEAR oils show excellent results in the FZG Gear load Test which is a benchmark for gear wear protection and confirms its excellent load carrying capacity. In addition, special inhibitors provide excellent protection against rust, corrosion and foaming.							
ENMAR MARINE GEAR PG is an advanced synthetic heavy duty industrial worm drive gear oil formulated using specially selected polyalkylene glycol base fluids and additives. It offers outstanding lubrication performance under severe operating conditions, including improved energy efficiency, long service life and high resistance to micro-pitting.							
ENMAR MARINE GEAR SH Oils are exceptional performance gear and bearing oils designed to provide outstanding service in terms of equipment protection, oil life and problem-free operation helping to enable increased customer productivity. These products feature excellent low temperature properties, as well as improved air release performance in the lower viscosity grades. They are resistant to mechanical shear, even in heavily loaded gear and high shear bearing applications, so that there is virtually no loss of viscosity.							

### Enmar Turbine Oil

Grade	ISO Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	TAN	
Enmar Marine Turbine GT-2 32	32	31,7	5,3	103	230	-18	>10000	ENMAR MARINE TURBINE GT-2 is manufactured from special high quality turbine-grade base oils with high temperature corrosion and oxidation inhibitors designed for modern high performance Industrial Gas Turbines. The result is a product that exhibits outstanding oxidation performance to meet the requirements of severe operational conditions. It can ensure precise operation of servohydraulic controls and offers good corrosion protection. They also have excellent antifoam and air release characteristics which is important for the precision of the servo-control systems.
Enmar Marine Turbine GT-2 46	46	47,6	7,0	105	234	-18	>10000	
Enmar Marine Turbine GT-2 68	68	69,6	9,0	103	236	-18	>10000	
Enmar Marine Turbine GT-2 100	100	99,7	11,34	100	250	-12	>6500	

### Enmar Compressor Oil

Grade	ISO Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	Density at 15°C	
Enmar Marine Compressor H 68	68	68	8,5	95	236	-15	0,879	ENMAR MARINE COMPRESSOR H Oils are a range of premium quality lubricants specifically developed for the cylinders and crankcase of modern reciprocating air compressors. They can also be used in some rotary air compressors. They offer low carbon forming tendencies, low volatility and superior oxidation stability. They provide excellent lubrication over a wide operating temperature range, including easy starting and good fluidity at low temperatures.
Enmar Marine Compressor H 100	100	100	11,0	95	250	-15	0,882	
Enmar Marine Compressor H 150	150	150	14,5	95	260	-15	0,886	
Enmar Marine Compressor PA 32	32	32	-	136	250	-42	0,859	
Enmar Marine Compressor PA 46	46	46	-	139	255	-42	0,860	ENMAR MARINE COMPRESSOR PA oils are a range of high performance polyalphaolefins (PAO) based synthetic compressor lubricants giving the very best performance in rotary flooded air compressors to provide long service life in extreme operating conditions.
Enmar Marine Compressor PA 68	68	68	-	147	262	-42	0,863	
Enmar Marine Compressor PA 100	100	100	-	143	265	-39	0,869	
Enmar Marine Compressor SE 100	100	100	-	150	274	-35	0,916	

### Enmar Heat Transfer

Grade	SAE Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	Density at 29,5°C	
Enmar Marine Heat Transfer Special 32	32	32	5,4	103	220	-12	0,8682	ENMAR MARINE HEAT TRANSFER SPECIAL 32 is a high-quality heat transfer and fast quenching medium. It is thermally stable, has high specific heat and thermal conductivity which gives outstanding performance in direct heating installations operating at bulk temperatures up to maximum 320°C.

### Enmar Greases

Grade	NJ GI Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Dropping Point °C	Penetration, Worked @ 25°C	Colour	Operating Temperature Range°C	
Enmar Grease EP 0	0	200	17,5	186	345	Dark Brown	-30 to 120	ENMAR GREASE EP greases have been developed for automotive applications where the benefits of lithium base thickened greases have excellent extreme pressure, load carrying and anti-wear properties in both steel-on-steel and steel-on-bronze applications. It contains an effective oxidation and rust inhibitor and is an ideal multipurpose grease suitable for use in a wide range of applications.
Enmar Grease EP 1	1	200	17,5	196	326	Dark Brown	-25 to 120	
Enmar Grease EP 2	2	200	17,5	204	280	Dark Brown	-25 to 120	
Enmar Grease MWR 2	2	-	-	102	265-295	Black	-20 to 70	ENMAR GREASE MWR is a high-performance Calcium grease with extreme pressure properties developed for wire rope and open gear Marine applications where it has good tackiness capabilities. It has excellent resistance to water wash-out due to its strong adhesion properties to prevent the loss of coating or "fling-off". It has excellent load carrying properties for all marine environments due to the micro graphite additives technology that forms a protective film in dry lubrication conditions.
Enmar Armourex CS	2	325	-	300+	380-400	Dark Brown	-25 to 150	ENMAR ARMOUREX CS is a heavy-duty adhesive bearing and open gear grease based on calcium sulfonate complex grease technology with extreme pressure properties and excellent water resistance, suitable for a wide range of Industrial, marine, and mobile plant lubrication applications. It is formulated to provide maximum protection against gear wear, pitting and provide improved resistance to rust and corrosion also have water washout properties. It has a high film strength providing a tough and tenacious lubricant film to withstand wide ambient temperature changes.
Enmar Moly EP 2	2	100	-	>180	265-295	Black	-30 to 140	ENMAR MOJY EP 2 is a smooth, highly water-resistant and work stable lithium soap grease containing additives to improve its oxidation resistance, corrosion protection and EP/anti wear properties. ENMAR MOJY EP 2 is based on a special mineral oil and contains a package of solid lubricants including molybdenum disulphide to provide good emergency running properties.

### Enmar Diesel Engine Oil

Grade	SAE Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Viscosity Index	Flash Point °C	Pour Point °C	Base No.	
Enmar HSD 40	40	156	15,48	100	248	-15	11	ENMAR HSD 40 is a range of monograde engine oils developed for the lubrication of old marine high speed diesel engines. It is designed specifically for use in naturally aspirated and light turbocharged diesel engines. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service.
Enmar HSDP 15W-40	15W-40	106,2	14,7	144	224	-30	11	ENMAR HSDP is a Super High Performance long drain diesel engine oil meeting the latest API CI-4 standard available in a shear stable viscosity grade. ENMAR HSDP offers the excellent performance for high speed marine diesel engines with low emission engine standards meeting Euro 4 and for extended drain periods.

### Enmar Refrigeration Oil

Grade	ISO VG	Kinematic Viscosity 40°C	mm²/s 100°C	Freon Floc Point, °C	Flash Point °C	Pour Point °C	Density at 15°C	
Enmar Marine Refrigeration N 32	32	32	-	-60	204	-42	-	ENMAR MARINE REFREGIRATION N refrigeration oils are manufactured from premium quality hydrotreated naphthenic base stocks, dewaxed to very low wax content. Consequently, they have very low pour points and good miscibility with Freon to provide low Freon floc points with CFC refrigerants such as R-12. ENMAR MARINE REFREGIRATION N oils can contribute towards prolonged compressor and seal life through the high thermal stability which controls the formation of carbon and gummy deposits at elevated temperatures that are encountered in the high pressure side of the refrigeration cycle.
Enmar Marine Refrigeration N 46	46	46	7,3	-	242	-47	0,9767	
Enmar Marine Refrigeration N 68	68	68	6,7	-29	200	-30	0,913	
Enmar Marine Refrigeration PE 32	32	32	5,9	-	250	-51	0,981	
Enmar Marine Refrigeration PE 68	68	68	10,8	-	280	-45	0,9231	ENMAR MARINE REFREGIRATION PE refrigeration oils are manufactured from high quality synthetic polyolester oils for use with HFC refrigerants. They have very low pour points and good miscibility with a range of HFC refrigerants to provide low Freon floc points. ENMAR MARINE REFREGIRATION PE oils have exceptionally good miscibility with these refrigerants and additionally can contribute towards prolonged compressor and seal life through the high thermal stability which controls the formation of carbon and gummy deposits at elevated temperatures.
Enmar Marine Refrigeration PE 100	100	100	11,3	-	280	-30	0,96	

### Two-Stroke Engine Oil

Grade	SAE Grade	Kinematic Viscosity 40°C	mm²/s 100°C	Sulphanated Ash	Flash Point °C	Pour Point °C	Color	
Enmar 2T Super Outboard	F/M3	38,72	6,62	0,01+	84	-27	Green	ENMAR 2T SUPER OUTBOARD is the latest generation of two-stroke engine lubricant for high performance outboard engines. It has been formulated with special base stocks that provide a low ash lubricant to help support the protection of lakes and oceans.



## TOTALCO (SFZ)LLC.

Address : P.O BOX 87 - P.C 217 - WH 03E

Salalah Free Zone / Salalah / Dhofar Governorat- Sultanate of Oman

Email      Sales & inquiry      [info@totalco-oil.com](mailto:info@totalco-oil.com)

Management & operation

[m.saeed@totalco-oil.com](mailto:m.saeed@totalco-oil.com)

[ali@totalco-oil.com](mailto:ali@totalco-oil.com)

[adel@totalco-oil.com](mailto:adel@totalco-oil.com)

[www.majanshippinglines.com](http://www.majanshippinglines.com)