



# **AVIN** *MARINE* *LUBES*

2016

PRODUCT CATALOGUE



**AVIN MARINE LUBES** are in business since 2006. Because of the nature of the business itself – and while AVIN marine products were present only at Greek ports supplying all calling vessels – **AVIN** initiated to create a global network for any shipping company and vessel to be able to source its branded marine lubricants. Gradually, since the beginning of 2007, a network of supply ports at various parts of the globe was established.

So far, **AVIN MARINE LUBES** are available at more than 350 ports worldwide. Our main focus is to supply vessels with lubricants at all ports, securing high quality product standards, safety procedures and always on-time delivery.

**AVIN** MARINE  
LUBES

LOW SPEED 2-STROKE  
CROSSHEAD ENGINES

	Description	OEM Approvals, Specifications	Grade	Base No, mg/KOH
AVIN NEPTUNE 100	Top quality, highly alkaline cylinder oil for low-speed, crosshead diesel engines that run on residual fuel with high sulfur (>2,0%) .	MDT (NOL)	SAE 50	100
AVIN NEPTUNE 80	Superior quality, high BN cylinder oil for low-speed, 2-stroke diesel engines operating on HFOs with sulfur >1,5%.		SAE 50	80
AVIN NEPTUNE 70	Superior quality, very alkaline cylinder oil for low-speed cross-head diesel engines burning residual fuel with sulfur >1,5%.	MDT (NOL)	SAE 50	70
AVIN NEPTUNE 55	High performance MCL for low-speed, 2-stroke engines running on residual fuels with 1-3% sulfur content.	MDT (NOL)	SAE 50	55
AVIN NEPTUNE 40	A high performance MCL designed for 2-stroke engines running on low sulfur (up to 1.5% weight) HFO.	MDT (NOL)	SAE 50	40
AVIN NEPTUNE 25	A low-alkalinity, high performance MCL designed for 2-stroke engines in ECA zones where ultra low sulfur distillate fuels or/and LNG, methanol, ethane and LPG are required.		SAE 50	25

SYSTEM CRANKCASE LUBRICATION

AVIN PANOIL M 530	Alkaline-type detergent oils for use in the crankcase systems of slow-speed, crosshead, marine diesel engines, particularly those with oil-cooled pistons.	MDT (NOL)	SAE 30	5
AVIN PANOIL M 840			SAE 40	8

TRUNK PISTON ENGINE LUBRICATION

AVIN ARGO 12 Series	Advanced TPEO for medium-speed, 4-stroke engines running on light fuels (MDO) or gasoil.		SAE 30	12
			SAE 40	12
			SAE 50	12
AVIN ARGO S 30 Series	Advanced formulation TPEO of high detergent potential for the cylinders and bearings of medium-speed, 4-stroke engines running on residual fuels (HFO).	MDT (NOL)	SAE 30	30
		MDT (NOL)	SAE 40	30
AVIN ARGO S 40 Series		MDT (NOL)	SAE 30	40
		MDT (NOL)	SAE 40	40
AVIN ERGO S 50		MDT (NOL)	SAE 40	50

HEAVY DUTY DIESEL ENGINE LUBRICATION

AVIN FORCE 2 Series	Multigrade, super high performance diesel oil, suitable for high-output engines in a variety of off-shore and shore applications.	ACEA E7, API CI-4/CF/SL, MERCEDES BENZ 228.3, MAN 3275 ,VOLVO VDS 3, MTU TYPE 2, MACK EO-N/EO-M Plus, CAT ECF1-a, GLOBAL DHD-1, DEUTZ DQC III-10, DETROIT DIESEL 93K215	SAE 15W40	
			SAE 20W50	
AVIN FORCE 3 Series	MTU category 1-type oil developed for use in both diesel and gasoline engines. Approved by ACEA, API and all major manufacturers.	ACEA E2, API SJ/CG-4, MERCEDES BENZ 228.1, MAN 271, MTU TYPE 1	SAE 15W40	
			SAE 20W50	
AVIN SPRINT S-3 Series	MTU category 2-type oil , suitable for high-output diesel/ petrol engines with/without turbo in on/offshore applications. They are also suitable for use in powershift transmissions, torque converters and hydraulic systems.	ACEA E2, API SL/CF, MERCEDES BENZ 228.2, MAN 3275-2, MTU TYPE 2	SAE 30	
			SAE 40	

OUTBOARD ENGINE LUBRICATION

AVIN OUTBOARD	Quality engine oil for use in outboard engines. It is suitable for use in boats or, even, snowmobiles and motorcycles that are equipped with 2-stroke, water-cooled engines having a "premix" or injection oil system.	NMMA TC-W3		
AVIN <b>BIO-OB</b> <b>NEW!</b>	Rapidly biodegradable 2-stroke oil for water-/air-cooled, premix or direct fuel injection outboards meeting EU Eco-label criteria.	NMMA TC-W3, ECOLABEL-COMPLIANT		

MEDIUM SPEED 4-STROKE  
TRUNK PISTON ENGINES

HIGH SPEED & OTHER ENGINES



## AUXILIARY APPLICATIONS

	Description	Grade	Performance Level, Specifications
<b>HYDRAULIC SYSTEMS</b>			
AVIN HYDROL Series	High quality, heavy duty, anti-wear hydraulic oils, suitable for use in modern high-pressure industrial hydraulic systems.	ISO 22-150	DIN 51524 Part 2, HLP, DENISON HF-0/HF-1/HF-2, CINCINNATI P-68/P-69/P-70, ISO 1158 HH/HL/HM, EATON I-286-S3
AVIN HYDRAULIC AW SP Series	Extra high viscosity index oils with extreme pressure properties specifically developed to meet the requirements of modern hydraulic systems that must operate at low ambient temperatures or under widely varying ambient temperature conditions.	ISO 22-150	DIN 51524 Part 3, HVLP, DENISON HF-0/HF-1/HF-2, CINCINNATI P-68/P-69/P-70, ISO 1158 HH/HL/HM/HR/HV, EATON I-286-S3
AVIN HYDROL ZNF Series	Very high purity, zinc-free hydraulic oils with excellent demulsification properties, resistance to ageing, corrosion protection and anti-wear properties. Suitable for hydraulic fluid power transmission systems and highly recommended for equipment with silver bearing surfaces.	ISO 46-100	DIN 51524 Part 2 HLP, CINCINNATI P-68/P-69/P-70, ISO 1158 HH/HV, ISO 6743/4 HM/HV, US STEEL 126/127/136, SS155434, SEB181222
AVIN <b>BIO-HFE</b> Series <b>NEW!</b>	Readily biodegradable lubricant for hydraulic and power transmission systems in applications where an overall decreased environmental impact is demanded.	ISO 46-68	ISO 15380 (HEES), ECOLABEL-COMPLIANT
<b>INDUSTRIAL GEAR, BEARING &amp; CIRCULATING SYSTEMS</b>			
AVIN LEDA Series	Top quality, high VI, solvent-refined and hydro-finished straight-mineral paraffinic lubricating oils. They are offered in a number of viscosity grades to satisfy a wide range of operating requirements.	ISO 68-460	
AVIN TITANUS PS Series	Premium quality, lead free, heavy duty, industrial gear lubricants intended for enclosed gear sets operating under severe service conditions.	ISO 68-680	DIN 51517 PART 3, US STEEL 224, ASTF FT 161
AVIN TITANUS SYN Series	Fully synthetic, high VI gear lubricants, made from selected PAO basestocks, designed for application in enclosed gears and bearings.	ISO 150-320	DIN 51517 PART 3, US STEEL 224, FLENDER AG, ISO 12925-1 TYPE CKD, AGMA 250.4
AVIN TITANUS SYN PG Series	Fully synthetic, industrial gear lubricants, made from selected PAG basestocks, designed for application in enclosed gears and bearings.	ISO 220-320	DIN 51517 PART 3
AVIN <b>BIO-GEAR</b> Series <b>NEW!</b>	High performance, synthetic lubricant for enclosed industrial gears and bearings in environmentally sensitive applications.	ISO 220-320	ISO 15380 (HEES); ECOLABEL-COMPLIANT
<b>STERN TUBE &amp; THRUSTER</b>			
AVIN <b>BIO-ST</b> Series <b>NEW!</b>	Premium biodegradable/non-bioaccumulative lubricant intended for the lubrication of stern tubes, complying with US EPA's 2013 VGP.	ISO 100-150	ECOLABEL-COMPLIANT; US EPA VGP-COMPLIANT
<b>TURBOCHARGER SYSTEMS</b>			
AVIN TURBINE OIL Series	High-quality lubricating oils for use in steam, water or gas turbines. They are formulated from high VI and they are available in a wide range of ISO viscosity grades to meet turbine manufacturers' requirements.	ISO 32-100	ASTM D 4304 Type I & III, ALSTOM HTGD 90017, BS 489, DIN 51515 PART I/II, DIN 51524 PART I, GE GEK-32568F, ISO 8068 TGB/TGSB, ISO 8068 TSA/TGA, ISO 11158 HH/HL, SIEMENS AG TLV 9013 04 & 05 Standard Thermal Stability
<b>AIR COMPRESSOR SYSTEMS</b>			
AVIN AEOLUS Series	Quality lubricants designed for use in reciprocating and rotary air compressors. Formulated from high quality base oils and selected high - temperature antioxidants and rust inhibitors to give low carbon - forming tendencies in air compressors.	ISO 32-100	DIN 51506 VDL, VICKERS I-286-S, CINCINNATI P-68/P-69/P-70
AVIN AEOLUS AS Series	Fully synthetic, high VI lubricants, made from selected PAO basestocks, specially designed for application in all types of air compressors.	ISO 46-100	DIN 51506 VDL
AVIN AEOLUS LPG <b>NEW!</b>	Synthetic (polyalkylene glycol-based) gas compressor lubricant for enclosed pattern compressors in chemical gas or LPG, LNG, HC chemical gas-filled environments.	ISO 150	ISO 6743-3 (ISO-L-DAA/-DAB/-DAC)
AVIN AEOLUS AP Series	Fully synthetic, high VI lubricants, made from selected synthetic ester basestocks, specially designed for application in air compressors.	ISO 68-100	DIN 51506 VDL, ISO/DP 6521-L-DAB, EN 12021

	Description	Grade	Performance Level, Specifications
<b>REFRIGERATION COMPRESSOR SYSTEMS</b>			
AVIN FRIO Series	Napthenic-based mineral oil designed for application in refrigeration compressors.	ISO 46-68	DIN 51503 KC/KA, BS 2626/77
AVIN FRIO SYN	Fully synthetic lubricant made from high quality alkyl benzene basestocks, designed for application in refrigeration compressors.	ISO 68	DIN 51503 KC/KA, BS 2626/92
AVIN FRIO SYN PE Series	Fully synthetic refrigeration compressor oil of poly-oleo-ester base which is suitable for compressors operating with new type hydrofluorocarbon refrigerants.	ISO 46-100	
<b>OTHER APPLICATIONS</b>			
AVIN TRAFIO OIL-I	A non-inhibited insulating oil manufactured from high quality naphthenic feedstocks. It offers good dielectric properties, good oxidation stability and provides efficient heat transfer. It is suitable for high voltage transformers, switchgears and other electrical equipment.		BS 148/84 CLASS I/IA, IEC 296/82 CLASS I/IA, VDE-0370/10.66
AVIN SLIDO Series	Highly refined, heavy duty lubricants with tackiness and antiwear additives. Specially designed for the lubrication of machine tool slides.	ISO 68; ISO 220	DIN 51524 PART 2 HLP
AVIN HEAT-TRANSFER OIL	An exceptional thermal conductivity fluid, suitable for heat transfer systems operating between 10° and 320°C.		
<b>GREASES</b>			
AVIN GRAVIN CALCIUM	Water-resistant grease based on calcium soap and low pour point naphthenic oils.	NLGI 2	DIN 51825 K2C-30
AVIN GRAVIN LITHIUM Series	Premium quality greases based on lithium 12 hydroxy-stearic soap and first choice base oils. They have been developed as general purpose lubricants for modern industrial and automotive applications.	NLGI 00; NLGI 2-3	DIN 51825 K2K, K3K
AVIN GRAVIN LITHIUM EP Series	Multipurpose greases manufactured with lithium 12-hydroxy-stearic-based soap and high quality base oils. They contain lead-free extreme pressure additives allowing it to ensure an efficient lubrication of mechanisms submitted to load or violent shocks.	NLGI 00; NLGI 2	DIN 51825 KP2K-25
AVIN GRAVIN LITHIUM PLEX EP	Multipurpose grease manufactured on lithium complex soap and high quality base oils. It contains lead free extreme pressure additives allowing it to ensure an efficient lubrication of mechanisms submitted to load or violent shocks.	NLGI 2	DIN 51825 KP2P-30
AVIN GRAVIN CALCIUM PLEX	Grease based on calcium sulphonate complex for versatile use. It has excellent adhesion to metal surfaces and great durability on high pressures.	NLGI 2	DIN 51825 KP2 P-20
AVIN GRAVIN LITHIUM MOLYBDENUM	A very efficient dark grey grease with strong anti-wear properties. It is formulated on a base of 12 hydroxy-stearic lithium soap, high quality mineral oils and micronised low friction solid lubricants.	NLGI 2	DIN 51825 KPF2K-25
AVIN GRAVIN GRAPHITED	High efficiency, lithium-based grease fortified with anti-oxidation/anticorrosion agents and graphite that forms a lubricating film 'stays at place' in high temperatures (up to 500°C) when the oil dries out.	NLGI 2	DIN 51825 KF2C-30
AVIN GRAVIN HT	A non-melting grease formulated on base of different viscosities and high flash point mineral oils. It is designed for the lubrication at high temperatures.	NLGI 2	DIN 51825 K2N-20
AVIN GRAVIN LS-OG	Lithium soap-based grease engineered with high quality paraffinic basestocks and a balanced oxidation/corrosion inhibitor and extreme pressure additive system. It is fortified with molybdenum disulfide (MoS <sub>2</sub> ) and graphite for the complete and efficient lubrication of open gears and wire ropes.	NLGI 2	
AVIN BIO-GREASE NEW!	100% biodegradable, non-toxic grease intended for the lubrication of plain/rolling element bearings and couplings in environmentally-sensitive marine and industrial areas.	NLGI 2	ECOLABEL-COMPLIANT; US EPA VGP-COMPLIANT



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