

Total Maintenance Solutions for Marine & Offshore Environment



www.magnagroup.com



How Omega Benefits You

Omega Manufacturing, a division of ITW PP & F Korea Limited, has been supplying high-performance lubricants and specialty products to sea-going and recreational vessels, offshore construction and port facilities since 1965.

Research and Development

Our Omega Research team is based in Hong Kong, one of the world's busiest harbours. These dedicated professionals work in close partnership with Omega field representatives and customers to continuously develop new and improved products to meet the ever-changing needs of the marine and offshore industry.

Network of Distributors

Omega has developed a technically trained distributorship network that provides comprehensive support to customer's vessels stopping at international ports.

Environmental Policy

Omega recognizes environmental protection as an integral part of its business activities. Our company has an environmental policy to minimize impact on customers, employees and the community. Objectives are set within that policy to conserve natural resources, reduce waste and lessen impact on the environment.

Internet / Intranet Site

Omega's field representatives worldwide utilize Internet technology to distribute product data and respond almost immediately to customer queries. Please visit our web site at <http://www.magnagroup.com>.

Comprehensive Customer Service

Omega's highly trained Marketing Consultants, Distribution Representatives and Lubrication Consultants are available to provide a complete package (ask for details from your local representative) to determine your individual lubrication needs beginning with a Ship Survey that includes:

Visual check on lubrication in engines, compressors, etc.

- Check on lubrication time cycle
- Recommendation of Omega lubrication system
- Recommendation of stock level

Lubrication analysis program

- Oil and grease analysis report
- Failure analysis report

In-house training program

- Trained Representatives can conduct seminars on request
- In-house training programs are customized on request

Equipment labelling

- We offer special labels to record products used
- Representative follow up to monitor progress





The Omega range of quality products is divided into the categories of Greases, Oils, Additives and Special Products. The following are some of the many popular lubricants and specialty items used in the marine and offshore industry. Check with your local Omega Distributor for a detailed list of other products.

Omega Grease for the Marine and Offshore Environment

Omega 58 Superior Food Machinery Grease

Developed for use in food-contact situations, Omega 58 is non-toxic and withstands acids common to food production as well as steam wash, detergents and extreme temperatures. Omega 58 is ideal for trawlers, fish processing and packaging plants, galleys and other clean-environment applications. **Surpasses FDA 21/CFR 178.3570.**

Omega 65 Long-life Chain and Cable Grease

Omega 65 is formulated with deep-core penetration power to maximize the working life of chain, cable and wire rope. Omega 65 resists "squeeze-out" and "fling-off" to provide long-lasting protection against corrosion. Omega 65 is ideal for anchor chains, sling chains, crane cables, hoist chains, winches, masthead chains and lifeboat equipment.

Omega 66 Heavy Duty Low-Temp Grease

Omega 66 will not congeal or harden during severe temperature fluctuations from -23 degrees Centigrade to 250 degrees Centigrade. This product is ideal for lifeboat equipment, hoist chains and slipways working under **arctic conditions**.

Omega 73 Waterproof Open Gear Grease

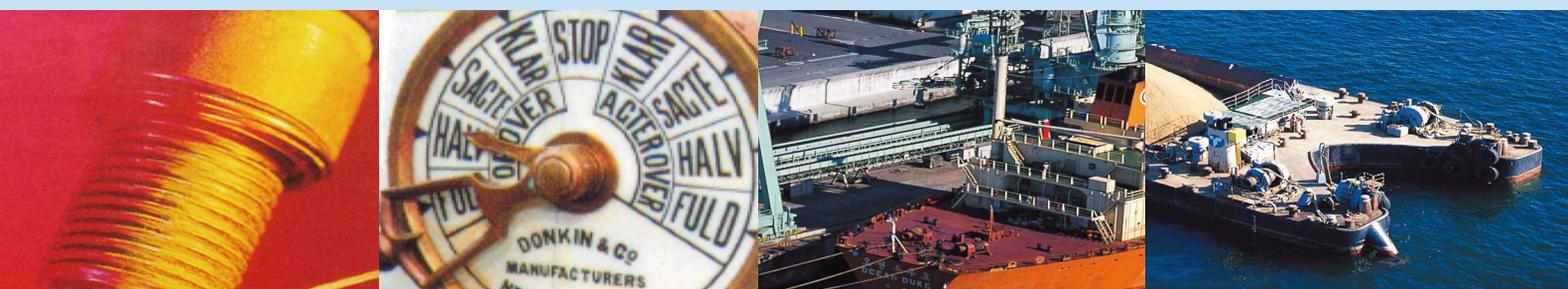
Omega 73 is the heavy-duty open gear grease that withstands inclement weather. Omega 73 stays in place to seal out dust, sand, saltwater and other contaminants to keep equipment running longer. Omega 73 is recommended for use in cranes, hoists, water pumps, timber drags, rail pulleys, winch gears and cableways.

Omega 95 Super Corrosion-Control Grease

Omega 95 is the saltwater-resistant grease that protects against corrosion without heavy metals or other harmful additives. Omega 95 continues to lubricate under water and is ideal for dockside equipment, shipboard handling equipment, watertight doors and winches.

Omega 99 "Seize-Stop" Grease

Omega 99 is a waterproof lubricant that prevents seizure of threaded parts. Omega 99 contains no lead or chromium and remains inert to most gases, including propane, butane, natural gas, LPG and more. Omega 99 can be used to protect nuts, bolts, studs, fittings, gaskets, washers and bearings from rust.





Omega Oils for the Marine and Offshore Environment

Omega 612 Universal Lubrication & Hydraulic Oil

Omega 612 is popularly used as hydraulic oil or as universal lubrication oil. It is ideal for chain drives, reciprocating compressors, rotary compressors and bearings. It is available in 5 grades.

Omega 613 Superior Air Compressor Oil

Omega 613 can be used either as a compressor oil or vacuum pump lubricant. It is heavily fortified against carbon formation and oxidation. Omega 613 is ideal for screw compressors (dry and flooded), rotary compressors, gear compressors, centrifugal compressors, axial flow compressors and all types of vacuum pumps.

Omega 636 Jamaican-Base Universal Maintenance Oil

Omega 636 is made with pure Jamaican Pimento oil, the only oil that is heavier than water. Omega 636 gives four-way action – lubricates, penetrates, displaces water and prevents rust. Omega 636 frees rust-frozen nuts, bolts, and screws. It protects shipboard "outdoor-exposed" parts, equipment, machinery and tools.

Omega 690 Super EP Gear Oil

Omega 690 is highly resistant to water, controls heat build-up and retards catalytic oxidation caused by metal particles. Omega 690 is also formulated with superior cohesion and adhesive properties and provides high resistance to foam. Available in 6 grades.

Omega Specialities and Additives for the Marine and Offshore Environment

Omega 904 Oil Concentrate

Omega 904 helps reduce friction, sludge, varnish and carbon build-up and can be used in all type of hydraulic fluid, transmission, reducers and all forms of gearboxes except automatic transmission. It does not contain any additives harmful to humans, machinery or the environment.

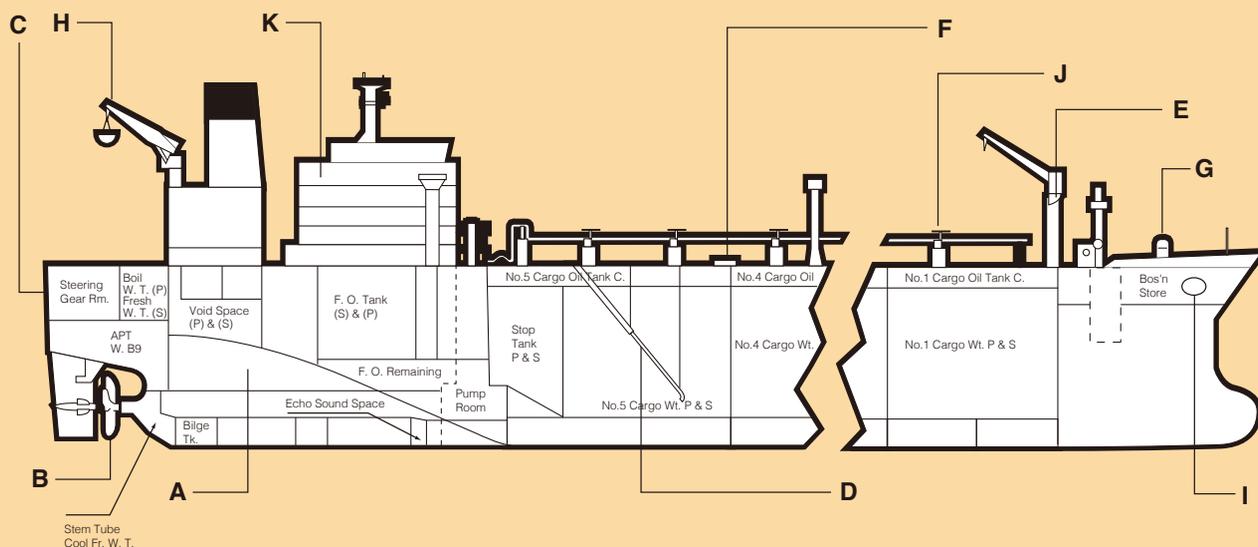
Omega 909 Super Engine Oil Additive

Omega 909 contains 22 additives in a superior formula to keep engines at peak performance for extended periods. Omega 909 eliminates ring and valve stick, inhibits corrosion and reduces friction to cut oil consumption and excessive engine wear. Omega 909 also prevents carbon, varnish and tar formation.

Omega 917 Seal Saver

Omega 917 lubricates and conditions seals to stop oil leaks and prevent fluid loss caused by seal deterioration in engines, transmissions and hydraulic systems. Omega 917 contains no harmful solvents, is non-flammable and safe to use and to store. Omega 917 works while equipment is in operation.

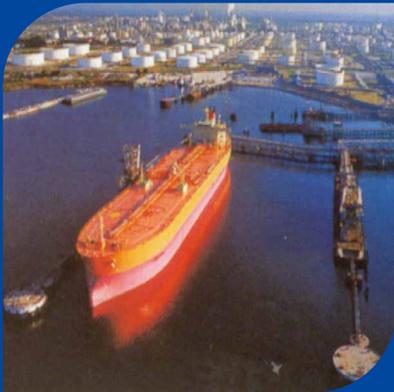




Not to Scale

Typical Application

ITEM	LOCATION	MACHINERY	APPLICATION	OMEGA PRODUCT	COMPETITIVE ADVANTAGE
A			turning gear	O690 SAE90	always "stays put" in any position on any metal
			grease points	O77 / O85 or O66	has universal uses, thus reducing inventories
			air compressors	O613 SAE20	heavily fortified against corrosion & oxidation
			lub oil centrifuge	O670 SAE90	operates well in high & low temperatures
B	aft stern tube area	stern tube	seal-stop leakage	O917	stops leaks without harmful additives
			propeller	cap	O77 #2
C	steering gear room	steering gear	hydraulic system	O612 SAE20	used either as hydraulic or lubrication oil
			rudder carrier	O77 or O85	compatible with most bearing seal materials
D	pilot ladder	accom. ladder winch	enclosed gear	O690 SAE90	always "stays put" in any position on any metal
			grease points	O95	salt water resistant & environmentally friendly
E	deck	deck crane	hydraulic system	O612 SAE20	used either as hydraulic or lubrication oil
			enclosed gear	O690 SAE90	always "stays put" in any position on any metal
F	deck	hatch covers	hydraulic system	O612 SAE10	withstands load fluctuations
			enclosed gear	O690 SAE90	always "stays put" in any position on any metal
			grease points	O95 or O66	has anti-corrosion & universal uses
G	forward deck	windlass & mooring	hydraulic system	O606 10W40	operates well in high & low temperatures
			enclosed gear	O690 SAE90	always "stays put" in any position on any metal
			grease points	O95 or O66	has anti-corrosion & universal uses
H	lifeboat	lifeboat davit winch	enclosed gear	O612 SAE30	withstands load fluctuations
			grease points	O66	suitable for arctic conditions
		lifeboat engine	crankcase	O757 15W40	suitable for low & very high temp. year-round
I	anchor store	wire ropes	rust protection	O65, O636	multi-purpose product, thus reducing inventories
		open gears	lubrication	O73	all-weather resistant, clings tenaciously
J	onboard deck	pumps, fans, etc.	grease points	O66	suitable for arctic conditions
		valve remote control	hydraulic system	O612 SAE10	used either as hydraulic or lubrication oil
K	forecastle	watertight doors	hinges, screws	O95 or O636	multi-purpose product, thus reducing inventories



At ITW PP & F Korea Limited we are fully committed to a proactive approach to safety, health, environment and product improvement. Our commitment is well reflected in:

- Our continuous Research and Developments
- Our on-going in-house Training and our in-house Training Facilities
- Our comprehensive range of Quality Products
- Our many long-term Repeat Customers



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About ITW

ITW (NYSE:ITW) is a Fortune 200 global multi-industrial manufacturing leader. The company's seven industry-leading segments leverage the unique ITW Business Model to drive solid growth with best-in-class margins and returns in markets where highly innovative, customer-focused solutions are required. ITW has nearly 50,000 dedicated colleagues in operations around the world who thrive in the company's unique decentralized and entrepreneurial culture. To learn more about the company and the ITW Business Model, visit www.itw.com.

To offer the best service to each market segment, ITW PP & F Korea Limited operates the following divisions that are branded uniquely for the most prominent recognition by users and customers:



OMEGA Ultimate Lubricants

Specializing in lubrication solutions - greases, oils and additives



MAGNA Welding Alloys

Specializing in gas and arc welding consumables for maintenance



CORIUM Industrial Chemicals

Specializing in industrial & commercial chemicals and adhesives



ZETALUBE Lubricants

A new lubricity dimension evolved from experience

We supply superior products that make maintenance:

- ✓ Faster
- ✓ Safer
- ✓ More reliable

Our products are engineered to:

- ✓ Lower costs
- ✓ Reduce downtime
- ✓ Cut wastage

We reserve the right to modify or change products for purposes of improving performance characteristics. © 2016 ITW PP & F Korea Limited

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The information contained in this publication supersedes all relevant information previously released and is to the best of our knowledge and accurate at the time of issue on June, 2016.

ITW PP & F Korea Limited is a business unit of Illinois Tool Works Inc. (ITW), U.S.A.