

WORLDWIDE PRICE LIST 2019



MARINE CHEMICALS
GASES & REFRIGERANTS
FIRE, RESCUE & SAFETY SERVICES

Effective January 01, 2019

All Prices in U.S. Dollars



Cargo Hold Cleaning



Water Treatment



Fuel Treatment



Antipollution kits & Equipment



Chemical Equipment



Welding Machines & Equipment



Gases



Refrigerants



Fire, Rescue & Safety Services



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OUR GLOBAL MARITIME PARTNER

Marichem Marigases is one of the leading companies in the international marine chemicals and gases industry, manufacturing and providing high quality marine chemicals, coatings, chemical equipment, gases and refrigerants, cutting and welding machinery, accessories and equipment, fire-rescue and safety services to the shipping industry. We offer a variety of products at more than 2,100 ports, supplied by a distribution network of 196 stock points, 24 hours a day, 7 days a week, 365 days a year. The efficient operation of our network is backed up by decades of experience from dedicated marine experts, operating according to ISO 14001 & OHSAS 18001 international quality systems, thus ensuring Marichem Marigases' commitment to the environmental responsibility, quality management, product efficiency, high - standard services and safety to the customers.

TECHNICAL SUPPORT

The company also sustains a big network of service engineers, who offer the essential technical support in all major ports and elsewhere worldwide.

This particular service is crucial for the proper monitoring of the boiler water & cooling water treatment programs of the vessels, thus recently has developed a sophisticated electronic system, "Optimum", through which, chemical test results can be sent directly from the vessels to the central servers of the company.

PEOPLE-CENTERED PHILOSOPHY

Since its start-up of operations, Marichem Marigases has steadily and faithfully observed a people-centered philosophy, with consistency, work ethic and respect towards the vessel, her crew, her operator and the environment being at the forefront. At the same time, Marichem Marigases is famous for its prompt and efficient services, which are considered to be one of our assets. The corporate philosophy is purely customer-centered, as we exist both thanks to and for the customer.

At Marichem Marigases, we believe it is a daily challenge and our mission to respond to the current needs of the international fleet and to be able to foresee its future requirements, through a strategy that focuses on the impeccable business operation of the group, which has led the company to evolve to a main player on the world stage of the global market.

ENVIRONMENTAL CONSCIOUSNESS

The Worldwide Services of the company have been at the forefront of promoting environmental consciousness within the chemical industry, throughout all stages of production, starting from the raw materials, the manufacturing process of the products and their handling, through to the final disposal on board the vessel.

We continuously strive to meet the marine industry needs, whilst we decrease our environmental footprint.



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■ MARICHEM MARIGASES TERMS AND CONDITIONS OF SALE OF GOODS AND SUPPLY OF CYLINDERS

All **MARICHEM MARIGASES** terms and conditions are valid for all sales of goods (including the supply of gas cylinders), fire, rescue and safety (FRS) services and refrigeration/air-conditioning/heating products & services from **MARICHEM MARIGASES** and their authorized distributors, agents, sub-contractors or representatives (hereinafter called **MARICHEM MARIGASES**).

01. By ordering or accepting delivery of goods or services supplied by **MARICHEM MARIGASES**, it is constituted that the customer has accepted **MARICHEM MARIGASES** terms and conditions and expressed exclusion of the customer's conditions of purchase. In case an order is placed by a customer for and on behalf of a vessel, her master, her owners, the contract of sale is deemed to be concluded with all the above parties. In case an order is placed by a customer as agent for a principal, disclosed or not, such customer is liable jointly and severally with such principal for payment of all amounts due and the performance of all obligations under these conditions.
02. The goods and gas cylinders shall be in conformity with the information given in **MARICHEM MARIGASES** Product Catalogue, Manual, Guide or other informative leaflet provided by **MARICHEM MARIGASES**. **MARICHEM MARIGASES** reserves the right to amend / revise the Product Catalogue, Price List, Ports List or any other specifications at any time without prior notice, incurring no liability. **MARICHEM MARIGASES** may in its full discretion provide goods or merchandise not listed in the Price List and/or Product Catalogue.
03. Prior to ordering, please read Marichem Marigases terms and conditions at the following link:
<http://www.marichem-marigases.com/salesterms>
04. Prior to use of any product and/ or equipment, please follow the instructions of use and storage, as well as the accompanying MSDS.

INSTRUCTIONS FOR USE AND STORAGE OF CYLINDERS

01. Never cause cylinders to bump to each other.
02. Never drop a gas cylinder, either full or empty.
03. Never lift or pull gas cylinders by the valve cup or valve top.
04. Always ensure that the cylinders are stored in an upright position, safely lashed or fastened, in order to prevent their fall.
05. Never strike and/or expose a cylinder to high temperature, O_x/Ac flame from a torch or any other source.
06. Cylinders must be stored and used at temperatures lower than 45°C (113°F).
07. During storage, oxygen cylinders must always be separated from acetylene cylinders by a distance of minimum six (6) meters, unless a fire proof barrier is erected. Provide adequate ventilation at all times.
08. Avoid denting, cutting or other action which might damage the cylinder's body or the top valve. Furthermore, ensure that the cylinders are stored in safe distance from any objects likely to cause dents, cuts or other damages.
09. Never use any tools to force open a cylinder's top valve. If the valve cannot be opened by hand put the cylinder aside and notify Marigases.
10. Never attempt to fill cylinders or transfer gas from one cylinder to another. This may cause serious accidents.
11. Never attempt to repair or modify any cylinder parts. Do not change or obliterate initials or stamps engraved or cast on the cylinder body. For safety reasons, cylinder maintenance should only be carried out by authorized Marigases personnel. Any defected cylinders must be tagged and put aside unused and returned to Marigases at the earliest opportunity.
12. Always make sure that the threads on the regulator or outlet union to be connected correspond to the threads of the top valve. Forcing the connections may damage the top valve threads and cause leakage.
13. Always return cylinders with some positive gas pressure. Be sure that the valves are closed after use to avoid contamination.
14. Never use gas cylinders as rollers or other mechanical purposes /actions except for its designated use.
15. Always report faults and irregularities upon return of the cylinders to Marigases.



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■ MARICHEM MARIGASES WORLDWIDE ZONES

COUNTRY	PORT	PRICE ZONE
ANGOLA	Luanda	O.R.
ARGENTINA	Bahia Blanca	4
	Buenos Aires	4
	Necochea	4
	Rosario	4
	San Lorenzo	4
	San Nicolas	4
AUSTRALIA	Adelaide	4
	Brisbane	3
	Fremantle	3
	Gladstone	4
	Mackay	4
	Melbourne	3
	Newcastle	4
	Port Kembla	4
	Sydney	3
BAHAMAS	Freeport	O.R.
BAHRAIN	Manama	3
BANGLADESH	Chittagong	O.R.
BELGIUM	Antwerp	1
	Ghent	1
	Zeebrugge	1
BRAZIL	Paranagua	4
	Porto Alegre	4
	Recife	4
	Rio de Janeiro	4
	Rio Grande	4
	Salvador	4

COUNTRY	PORT	PRICE ZONE
	Santos	4
	Sao Francisco do Sul	4
	Tubarao	4
	Vitoria	4
BULGARIA	Bourgas	3
	Varna	3
CAMEROON	Douala	O.R.
CANADA	Halifax	4
	Montreal	4
	Quebec	4
	Vancouver	3
CANARY ISLANDS	Las Palmas	3
	Tenerife	4
CHILE	Valparaiso	4
CHINA	Dalian	3
	Fangcheng	4
	Guangzhou - Huangpu	3
	Huangdao	3
	Nantong	3
	Ningbo	3
	Qingdao	3
	Qinhuangdao	3
	Shanghai	2
	Xiamen	4
	Xingang	3
COLOMBIA	Cartagena	O.R.
CONGO	Pointe-Noire	O.R.

COUNTRY	PORT	PRICE ZONE
CROATIA	Rijeka	O.R.
CUBA	Havana	O.R.
CYPRUS	Larnaca	3
	Limassol	3
DENMARK	Aalborg	3
	Aarhus	3
	Copenhagen	3
	Fredericia	3
	Kalundborg	3
DOMENICAN REP.	Santo Domingo	O.R.
ECUADOR	Guayaquil	4
EGYPT	Alexandria	3
	Damietta	3
	Port Said	3
	Suez	3
ESTONIA	Tallinn	3
FINLAND	Kotka	O.R.
FRANCE	Bordeaux	3
	Brest	3
	Dunkirk	3
	La Pallice	3
	Le Havre	2
	Marseilles	2
	Nantes	3
	Rouen	3
GERMANY	Bremen	1
	Emden	1
	Hamburg	1
	Kiel	3
	Rostock	2
GHANA	Tema	O.R.
GIBRALTAR	Gibraltar	2

COUNTRY	PORT	PRICE ZONE
GREECE	Patra	1
	Pilos	1
	Piraeus	1
	Thessaloniki	1
	Volos	1
HONG KONG	Hong Kong	2
INDIA	Calcutta	4
	Chennai (Madras)	4
	Cochin	4
	Kandla	4
	Mumbai (Bombay)	4
	Tuticorin	4
	Visakhapatnam	4
INDONESIA	Jakarta	O.R.
IRELAND	Cork	O.R.
ISRAEL	Haifa	3
ITALY	Augusta	3
	Bari	3
	Brindisi	3
	Civitavecchia	3
	Genoa	2
	Livorno	3
	Naples (Napoli)	3
	Ravenna	3
	Savona	3
	Trieste	3
	Venice (Venezia)	3
IVORY COAST	Abidjan	4
JAMAICA	Kingston	O.R.
JAPAN	Chiba	3
	Kobe	3
	Moji Port	3
	Nagoya	3
	Osaka	3
	Tokyo	3
	Yokohama	3

COUNTRY	PORT	PRICE ZONE
JORDAN	Al Aqabah	0.R.
KOREA (SOUTH)	Inchon	3
	Pusan	3
	Ulsan	3
KUWAIT	Kuwait	0.R.
LATVIA	Riga	3
	Ventspils	3
LEBANON	Beirut	3
LITHUANIA	Klaipeda	3
MALAYSIA	Penang	3
	Port Klang	3
MALTA	Valetta	3
MEXICO	Coatzacoalcos	4
	Lazaro Cardenas	4
	Manzanillo	4
	Tampico	4
	Veracruz	4
MOROCCO	Casablanca	4
NAMIBIA	Walvis Bay	0.R.
NETHERLANDS	Amsterdam	1
	Delfzijl	3
	Flushing	1
	Moerdijk	1
	Rotterdam	1
	Terneuzen	1
NETHERLANDS ANTILLES	Curacao	4
NEW ZEALAND	Auckland	4
NIGERIA	Lagos	4

COUNTRY	PORT	PRICE ZONE
NORWAY	Bergen	3
	Haugesund	3
	Kristiansund	4
	Larvik	3
	Oslo	3
	Stavanger	3
OMAN	Salalah	0.R.
PAKISTAN	Karachi	0.R.
PANAMA	Balboa	3
	Cristobal	3
PERU	Callao	4
PHILIPPINES	Davao	4
	Manila	0.R.
POLAND	Gdansk	3
	Gdynia	3
	Szczecin	3
PORTUGAL	Leixoes	3
	Lisbon	2
	Setubal	3
	Sines	3
PUERTO RICO	San Juan	0.R.
QATAR	Doha	4
ROMANIA	Constanta	3
	Mangalia	3
	Midia	3
RUSSIA	Murmansk	4
	Novorossiysk	4
	St. Petersburg	3
SAUDI ARABIA	Dammam	4
	Jeddah	3
SENEGAL	Dakar	4
SINGAPORE	Singapore	1

COUNTRY	PORT	PRICE ZONE
SOUTH AFRICA	Cape Town	2
	Durban	2
	East London	3
	Port Elizabeth	3
	Richards Bay	2
	Saldanha Bay	3
SPAIN	Algeciras	2
	Barcelona	2
	Bilbao	3
	Cadiz	3
	Cartagena	3
	Gijon	3
	La Coruna	3
	Seville	3
	Tarragona	3
	Valencia	3
SRI LANKA	Colombo	4
SWEDEN	Gothenburg	3
	Stockholm	4
SYRIA	Tartus	4
TAIWAN	Kaohsiung	3
	Keelung	3
THAILAND	Bangkok	3
	Ko Si Chang	4
TRINIDAD & TOBAGO	Port of Spain	4
TUNISIA	Tunisia	O.R.
TURKEY	Istanbul	2
UKRAINE	Odessa	3
UNITED ARAB EMIRATES	Dubai	1
	Fujairah	1
	Jebel Ali	1
	Khor Fakkan	1
UNITED KINGDOM	Aberdeen	3
	Belfast	4
	Cardiff	4

COUNTRY	PORT	PRICE ZONE
	Falmouth	4
	Grimsby	4
	Hull	3
	Immingham	3
	Liverpool	4
	London (Tilbury)	2
	Middlesbrough	4
	Newcastle	4
	Southampton	3
U.S.A.	Baltimore MD	2
	Beaumont TX	3
	Boston MA	4
	Charleston SC	3
	Corpus Christi TX	4
	Houston TX	1
	Jacksonville FL	3
	Los Angeles CA	1
	Miami FL	2
	Mobile AL	3
	New Orleans LA	1
	New York NY	1
	Norfolk VA	3
	Philadelphia PE	2
	Port Arthur TX	3
	Port Canaveral FL	4
	Portland OR	3
	San Francisco CA	3
	San Diego CA	2
Savannah GEO	4	
Seattle WA	4	
Tampa FL	3	
URUGUAY	Montevideo	O.R.
VENEZUELA	La Guaira	4
	Maracaibo	4
	Puerto Cabello	4
	Puerto la Cruz	4
	Puerto Ordaz	4
	Punta Cardon	4
VIETNAM	Ho Chi Minh	O.R.
VIRGIN ISLAND (USA)	St. Croix	O.R.
YEMEN	Aden	O.R.



■ CHEMICAL PRODUCTS

ORDER No	PRODUCT DESCRIPTION	PACKAGING	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ FUEL OIL TREATMENT							
562501	FUEL OIL TREATMENT	25 LTR STEEL DRUM	LTR	8.90	9.80	11.10	14.30
562101	FUEL OIL TREATMENT	210 LTR STEEL DRUM	LTR	8.80	9.70	11.00	14.20
562511	F.O.T. NEW GENERATION	25 LTR STEEL DRUM	LTR	29.80	32.80	37.30	47.80
562111	F.O.T. NEW GENERATION	210 LTR STEEL DRUM	LTR	29.70	32.70	37.20	47.70
562502	F.O.T. 10	25 LTR STEEL DRUM	LTR	9.90	10.90	12.40	15.90
562102	F.O.T. 10	210 LTR STEEL DRUM	LTR	9.80	10.80	12.30	15.80
562512	F.O.T. 10 NEW GENERATION	25 LTR STEEL DRUM	LTR	31.50	34.70	39.50	50.60
562112	F.O.T. 10 NEW GENERATION	210 LTR STEEL DRUM	LTR	31.40	34.60	39.40	50.50
562503	F.O.T. C-100	25 LTR STEEL DRUM	LTR	16.20	17.80	20.30	26.00
562103	F.O.T. C-100	210 LTR STEEL DRUM	LTR	16.10	17.70	20.20	25.90
562513	F.O.T. C-100 NEW GENERATION	25 LTR STEEL DRUM	LTR	33.20	36.50	41.60	53.30
562113	F.O.T. C-100 NEW GENERATION	210 LTR STEEL DRUM	LTR	33.10	36.40	41.50	53.20
562506	F.O.T. - LS	25 LTR STEEL DRUM	LTR	16.70	18.40	21.00	26.80
562508	F.O.T. - ULS	25 LTR STEEL DRUM	LTR	38.50	42.40	48.30	61.80
562504	FUEL BIOCONTROL	25 LTR STEEL DRUM	LTR	14.80	16.30	18.60	23.80
562507	FUELBREAK	25 LTR STEEL DRUM	LTR	12.40	13.60	15.60	19.90
562515	FUELFLOW PPR	25 LTR STEEL DRUM	LTR	24.90	27.40	31.20	40.00
562115	FUELFLOW PPR	210 LTR STEEL DRUM	LTR	24.80	27.30	31.10	39.90
562604	SOOT CLEANER	25 KGR STEEL DRUM	KGR	11.20	12.30	14.10	18.00
563005	SOOT CLEANER LIQUID	30 LTR PLASTIC JERRICAN	LTR	12.90	14.20	16.20	20.70

■ WATER TREATMENT

• BOILER WATER TREATMENT

673001	ALKALINITY CONTROL	30 LTR PLASTIC JERRICAN	LTR	8.60	9.50	10.80	13.80
673002	BOILER SLUDGE CONDITIONER	30 LTR PLASTIC JERRICAN	LTR	9.10	10.00	11.40	14.60
673003	B.W.T. NEW FORMULA	30 LTR PLASTIC JERRICAN	LTR	7.60	8.40	9.50	12.20
672503	B.W.T. POWDER	25 KGR STEEL DRUM	KGR	10.40	11.40	13.00	16.70
673006	MARICHEM CCI	30 LTR PLASTIC JERRICAN	LTR	10.20	11.20	12.80	16.40
673018	OPTITREAT	30 LTR PLASTIC JERRICAN	LTR	9.55	10.50	12.00	15.30
673017	OXYBLOCK D	30 LTR PLASTIC JERRICAN	LTR	19.60	21.60	24.60	31.50

ORDER No	PRODUCT DESCRIPTION	PACKAGING		UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
673008	OXYCONTROL	30 LTR	PLASTIC JERRICAN	LTR	12.70	14.00	15.90	20.40
673013	MARZINE PLUS	30 LTR	PLASTIC JERRICAN	LTR	14.70	16.20	18.50	23.60
672509	PHOSPHATE	25 KGR	PLASTIC DRUM	KGR	7.80	8.60	9.80	12.50
• COOLING WATER TREATMENT								
833042	ANTIFREEZE	30 LTR	PLASTIC JERRICAN	LTR	9.70	10.70	12.20	15.00
673004	D.C.W.T. NON CHROMATE	30 LTR	PLASTIC JERRICAN	LTR	6.20	6.80	7.80	10.00
672505	D.C.W.T. POWDER	25 KGR	PLASTIC DRUM	KGR	10.90	12.00	13.70	17.50
672026	MARICIL	20 LTR	PLASTIC JERRICAN	LTR	8.40	9.20	10.50	13.50
• SEA WATER TREATMENT								
673014	CLOG CONTROL	30 LTR	PLASTIC JERRICAN	LTR	12.80	14.00	16.00	20.50
• EVAPORATOR TREATMENT								
673005	EVAPORATOR TREATMENT	30 LTR	PLASTIC JERRICAN	LTR	9.20	10.10	11.50	14.80
673011	MARIVAP	30 LTR	PLASTIC JERRICAN	LTR	14.20	15.60	17.80	22.80
▪ CLEANING								
• TANK CLEANING								
832531	TANK CLEANER A	25 LTR	STEEL DRUM	LTR	6.90	7.60	8.70	11.10
832131	TANK CLEANER A	210 LTR	STEEL DRUM	LTR	6.80	7.50	8.60	11.00
832530	TANK CLEANER S	25 LTR	STEEL DRUM	LTR	8.80	9.70	11.00	14.10
832130	TANK CLEANER S	210 LTR	STEEL DRUM	LTR	8.70	9.60	10.90	14.00
832520	MARICHEM T.T.C.	25 LTR	STEEL DRUM	LTR	9.20	10.10	11.50	14.80
832120	MARICHEM T.T.C.	210 LTR	STEEL DRUM	LTR	9.10	10.00	11.40	14.70
833065	IGS MARI- CLEANER	30 LTR	PLASTIC JERRICAN	LTR	9.70	10.70	12.20	15.50
832165	IGS MARI- CLEANER	210 LTR	PLASTIC DRUM	LTR	9.60	10.60	12.10	15.40
• CARGO HOLD CLEANING								
833003	ALCACLEAN H.D.	30 LTR	PLASTIC JERRICAN	LTR	6.20	6.80	7.80	10.00
832103	ALCACLEAN H.D.	210 LTR	PLASTIC DRUM	LTR	6.10	6.70	7.70	9.90
832116	ALCACLEAN XF	210 LTR	PLASTIC DRUM	LTR	8.20	9.00	10.30	13.20
833023	BAUXITE REMOVER	30 LTR	PLASTIC JERRICAN	LTR	6.70	7.40	8.40	10.80
832125	BAUXITE REMOVER	210 LTR	PLASTIC DRUM	LTR	6.60	7.30	8.30	10.70
833033	BUFFERSOL	30 LTR	PLASTIC JERRICAN	LTR	6.50	7.10	8.10	10.40
832134	BUFFERSOL	210 LTR	PLASTIC DRUM	LTR	6.40	7.00	8.00	10.30
833008	CEMENT REMOVER	30 LTR	PLASTIC JERRICAN	LTR	6.90	7.60	8.70	11.10
832108	CEMENT REMOVER	210 LTR	PLASTIC DRUM	LTR	6.80	7.50	8.60	11.00
830543	FOAM PLUS	5 LTR	PLASTIC JERRICAN	LTR	12.90	14.20	16.20	20.70
833045	IRON DUST CLEANER	30 LTR	PLASTIC JERRICAN	LTR	7.50	8.30	9.40	12.00

ORDER No	PRODUCT DESCRIPTION	PACKAGING	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
832145	IRON DUST CLEANER	210 LTR PLASTIC DRUM	LTR	7.40	8.20	9.30	11.90
833017	LIME CLEANER	30 LTR PLASTIC JERRICAN	LTR	7.10	7.80	8.90	11.40
832117	LIME CLEANER	210 LTR PLASTIC DRUM	LTR	7.00	7.70	8.80	11.30
833037	MARICHEM P.C.S.	30 LTR PLASTIC JERRICAN	LTR	6.50	7.10	8.10	10.40
832138	MARICHEM P.C.S.	210 LTR PLASTIC DRUM	LTR	6.40	7.00	8.00	10.30

• **CLEANING & MAINTENANCE PRODUCTS**

832501	AIR COOLER CLEANER	25 LTR STEEL DRUM	LTR	10.90	12.00	13.70	17.50
832101	AIR COOLER CLEANER	210 LTR STEEL DRUM	LTR	10.80	11.90	13.60	17.40
832502	AIR COOLER CLEANER LT	25 LTR STEEL DRUM	LTR	9.60	10.60	12.00	15.40
832583	ACC NG	25 LTR STEEL DRUM	LTR	13.80	15.20	17.30	22.20
832183	ACC NG	210 LTR STEEL DRUM	LTR	13.70	15.10	17.20	22.10
833004	ALCACTIVE LIQUID	30 LTR PLASTIC JERRICAN	LTR	6.40	7.10	8.00	10.30
833022	ALCACTIVE LIQUID PLUS	30 LTR PLASTIC JERRICAN	LTR	7.80	8.60	9.80	12.50
833050	ANTIFOAM SE	30 LTR PLASTIC JERRICAN	LTR	18.90	20.80	23.70	30.30
673015	BALLAST W.CH.A	30 LTR PLASTIC JERRICAN	LTR	12.50	13.80	15.70	20.10
672115	BALLAST W.CH.A	210 LTR PLASTIC DRUM	LTR	12.40	13.70	15.60	20.00
550311	BIOACTIVE DESCALER	3 KGR PLASTIC PAIL	KGR	34.30	37.70	43.00	55.10
550510	BIOACTIVE LIQUID	5 LTR PLASTIC PAIL	LTR	12.50	13.80	15.70	20.10
555555	BIOACTIVE POWDER	4 KGR PLASTIC PAIL	KGR	57.20	62.90	71.70	91.80
551212	BIOACTIVE TOILET CLEANER	12X1 LTR PLASTIC PAIL	LTR	10.95	12.05	13.70	17.60
830506	CHLORIDE TABLETS	5 KGR PLASTIC PAIL	KGR	48.00	52.80	60.20	77.05
833009	DESCALER LIQUID 555	30 LTR PLASTIC JERRICAN	LTR	4.90	5.40	6.20	7.90
832509	DESCALER POWDER	25 KGR STEEL DRUM	KGR	8.20	9.00	10.30	13.20
833060	DG SUPER ECO	30 LTR PLASTIC JERRICAN	LTR	7.90	8.70	9.90	12.60
832160	DG SUPER ECO	210 LTR PLASTIC JERRICAN	LTR	7.80	8.60	9.80	12.50
832585	ELECTROCLEAN ECO QUICK	25 LTR STEEL DRUM	LTR	13.30	14.60	16.70	21.40
832516	ELECTROCLEAN ENVIRO	25 LTR STEEL DRUM	LTR	11.20	12.30	14.10	18.00
832549	FILTER CLEANER PLUS	25 LTR STEEL DRUM	LTR	13.00	14.30	16.30	20.90
832513	FILTER CLEANER	25 LTR STEEL DRUM	LTR	11.70	12.90	14.70	18.80
830543	FOAM PLUS	5 LTR PLASTIC JERRICAN	LTR	12.90	14.20	16.20	20.70
833035	GARAGE CLEANER	30 LTR PLASTIC JERRICAN	LTR	5.60	6.20	7.00	9.00
833014	GENERAL CLEANING & SOLVENT	30 LTR PLASTIC JERRICAN	LTR	4.50	4.90	5.60	7.20
833015	GENERAL CLEANING & SOLVENT SUPER	30 LTR PLASTIC JERRICAN	LTR	5.40	6.00	6.80	8.70
830501	HAND CLEANER	5 LTR PLASTIC PAIL	LTR	8.90	9.80	11.20	14.30
833018	LIQUID SOAP	30 LTR PLASTIC JERRICAN	LTR	5.10	5.60	6.40	8.20
833036	ME COOLING SYSTEM CLEANER	30 LTR PLASTIC JERRICAN	LTR	8.70	9.60	10.90	14.00
832505	MARICHEM C.R - LT	25 LTR STEEL DRUM	LTR	11.90	13.10	14.90	19.10
832076	MARICHEM OIL SPILL DISPERSANT	30 LTR PLASTIC JERRICAN	LTR	21.10	23.20	26.50	33.90
832176	MARICHEM OIL SPILL DISPERSANT	210 LTR PLASTIC DRUM	LTR	21.00	23.10	26.40	33.80
833032	MARICLEAN DG - 25	30 LTR PLASTIC JERRICAN	LTR	8.80	9.70	11.00	14.10

ORDER No	PRODUCT DESCRIPTION	PACKAGING		UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
833020	MARICLEAN - POL	30 LTR	PLASTIC JERRICAN	LTR	5.40	6.00	6.80	8.70
833019	MUD CONDITIONER	30 LTR	PLASTIC JERRICAN	LTR	5.90	6.50	7.40	9.50
832521	OIL & GREASE REMOVER	25 LTR	STEEL DRUM	LTR	5.70	6.30	7.20	9.20
832121	OIL & GREASE REMOVER	210 LTR	STEEL DRUM	LTR	5.60	6.20	7.10	9.10
832523	OIL SPILL EMULSIFIER	25 LTR	STEEL DRUM	LTR	8.40	9.20	10.50	13.50
832123	OIL SPILL EMULSIFIER	210 LTR	STEEL DRUM	LTR	8.30	9.10	10.40	13.40
833024	PASSIVATION LIQUID	30 LTR	PLASTIC JERRICAN	LTR	4.50	4.90	5.60	7.20
830451	PENETRIN SPRAY	0.45 LTR	TIN	TIN	12.90	14.20	16.20	20.70
833025	PICKLING LIQUID	30 LTR	PLASTIC JERRICAN	LTR	4.70	5.20	5.90	7.50
833026	PURIFIER DISC CLEANER	30 LTR	PLASTIC JERRICAN	LTR	8.90	9.80	11.20	14.30
833027	RUST REMOVER	30 LTR	PLASTIC JERRICAN	LTR	8.40	9.20	10.50	13.50
833028	RUST SHIELD PHOS	30 LTR	PLASTIC JERRICAN	LTR	7.60	8.40	9.60	12.20
833031a	SANITATION A - CLEANER	30 LTR	PLASTIC JERRICAN	LTR	9.10	10.00	11.40	14.60
832548	SOLBREAK HFP	25 LTR	STEEL DRUM	LTR	10.90	12.00	13.70	17.50
832140	SOLBREAK HFP	210 LTR	STEEL DRUM	LTR	10.80	11.90	13.60	17.40
832535	SOLBREAK	25 LTR	STEEL DRUM	LTR	7.80	8.60	9.80	12.50
832136	SOLBREAK	210 LTR	STEEL DRUM	LTR	7.70	8.50	9.70	12.40
833066	USC PLUS	30 LTR	PLASTIC JERRICAN	LTR	9.50	10.45	11.90	15.30

■ COATINGS

922501	PLASTIC COATING	25 LTR	STEEL DRUM	LTR	6.90	7.60	8.70	11.10
922102	MARICOTE ALOX	210 LTR	STEEL DRUM	LTR	10.50	11.60	13.20	16.90
920103	STRONG PLASTIC RESISTANT	1 LTR	PLASTIC PAIL	SET	48.10	52.90	60.30	77.20
923004	PRELOAD - 300	30 LTR	PLASTIC JERRICAN	LTR	7.20	7.90	9.10	11.60
922104	PRELOAD - 300	210 LTR	PLASTIC DRUM	LTR	7.10	7.80	9.00	11.50



■ TEST KITS & EQUIPMENT

ORDER No	PRODUCT DESCRIPTION	PACKAGING	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ BOILER WATER TREATMENT TEST KITS							
700107	WT ALKA TEST KIT	PLASTIC CASE	SET	185.00	203.00	232.00	297.00
700108	WT CHLORI TEST KIT	PLASTIC CASE	SET	258.00	283.00	324.00	414.00
700109	WT PHOSP TEST KIT	PLASTIC CASE	SET	294.00	323.00	368.00	472.00
700110	WT SULFI TEST KIT	PLASTIC CASE	SET	278.00	306.00	349.00	446.00
700120	DEHA TEST KIT	PLASTIC CASE	SET	394.00	433.00	494.00	632.00
700115	HARDNESS TEST KIT	PLASTIC CASE	SET	229.00	251.00	287.00	368.00
700114	HYDRAZINE TEST KIT	PLASTIC CASE	SET	321.00	353.00	402.00	515.00
700201	pH MEASURING TAPE	CARTON BOX	PCS	22.00	24.00	28.00	35.00
700232	CONDUCTIVITY/TDS/pH & TEMPERATURE METER	CARTON BOX	PCS	504.00	554.00	632.00	809.00
350252	CALIBRATION SOLUTION FOR CONDUCTIVITY METER-250ml		BTL	68.00	75.00	85.00	109.00
■ DIESEL COOLING WATER TREATMENT TEST KITS							
700104	NITRITE TEST KIT	CARTON BOX	SET	141.00	155.00	177.00	226.00
700112	CHLORICOOOL WT TEST KIT	PLASTIC CASE	SET	258.00	283.00	324.00	414.00
700201	pH MEASURING TAPE	CARTON BOX	PCS	22.00	24.00	28.00	35.00
■ CHLORINE TEST KITS							
317430	CHLORINE TEST KIT FOR SEWAGE WATER TREATMENT	PLASTIC CASE	SET	240.00	264.00	301.00	385.00
700126	CHLORINE & pH 6,4-7,8 TEST KIT	PLASTIC CASE	SET	0.R.	0.R.	0.R.	0.R.
■ DOSING SYSTEMS							
710301	DOSING SYSTEM - WITH FLOWMETER		UNIT	814.00	895.40	1020.75	1306.60
710310	DOSING SYSTEM ELECTRONIC, MULTIVOLTAGE 110-220V/50-60Hz		UNIT	2890.00	3179.00	3624.10	4638.90
710303	DOSING SYSTEM - FIXED TYPE FOR SOOT CLEANER		UNIT	840.00	924.00	1053.30	1348.20
710302	FLOWMETER FOR DOSING SYSTEM		UNIT	457.00	502.70	573.10	733.60

▪ **POTABLE WATER TEST KITS**

700116	POTABLE WATER TEST KIT		UNIT	174.00	191.40	218.20	279.30
700117	POTABLE WATER TEST KIT - ADVANCED		UNIT	3460.00	3806.00	4338.80	5553.70
700122	ENVIROCHECK CONTACT C		PCS	0.R	0.R	0.R	0.R
700123	ENVIROCHECK CONTACT TVC		PCS	0.R	0.R	0.R	0.R
700124	MINI INCUBATOR 230V		PCS	0.R	0.R	0.R	0.R
700125	pH INDICATOR STRIPS		PCS	0.R	0.R	0.R	0.R
700126	CHLORINE & pH 6,4-7,8 TEST KIT		PCS	0.R	0.R	0.R	0.R

▪ **OIL TEST & SAMPLING EQUIPMENT**

720101	WATER IN OIL TEST KIT	STURDY CASE	SET	1560.00	1716.00	1956.20	2503.90
720201	TBN TEST KIT	STURDY CASE	SET	1260.00	1386.00	1580.00	2022.40
720100	COMBINED (WATER IN OIL / TBN) TEST KIT	STURDY CASE	SET	2760.00	3036.00	3461.00	4430.10
720111	WATER IN OIL / TBN TEST DILUENT - 1000ml		BTL	216.00	237.60	270.90	346.70
720112	WATER IN OIL TEST SOLUTION - 50 ml		BTL	158.00	173.80	198.10	253.60
720211	TBN TEST SOLUTION - 500 ml		BTL	222.00	244.20	278.40	356.35
720104	COMPATIBILITY / STABILITY TEST KIT	STURDY CASE	SET	2365.00	2601.50	2965.70	3796.10
348596	VISCOSITY TOOL		PCS	155.00	170.50	194.40	248.80
700151	PORT A LAB KIT	STURDY CASE	PCS	4800.00	5280.00	6019.20	7704.60
720132	CAT FINES CHECK TEST KIT	STURDY CASE	SET	3850.00	4235.00	4827.90	6179.70
740103	BUNKER SAMPLER 3 INCHES		PCS	780.00	858.00	978.10	1252.00
740104	BUNKER SAMPLER 4 INCHES		PCS	870.00	957.00	1091.00	1396.50
740105	BUNKER SAMPLER 5 INCHES		PCS	1000.00	1100.00	1254.00	1605.10
740106	BUNKER SAMPLER 6 INCHES		PCS	1060.00	1166.00	1329.20	1701.40
740107	BUNKER SAMPLER 7 INCHES		PCS	1090.00	1199.00	1366.90	1749.60
740108	BUNKER SAMPLER 8 INCHES		PCS	1160.00	1276.00	1454.60	1861.90
740110	BUNKER SAMPLER 10 INCHES		PCS	1650.00	1815.00	2069.00	2648.40
740112	BUNKER SAMPLER 12 INCHES		PCS	1830.00	2013.00	2294.80	2937.30



■ ANTIPOLLUTION KITS & EQUIPMENT

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ OIL CLEAN KITS						
710701	OIL CLEAN KIT - 7 BARRELS	PCS	3580.00	3938.00	4489.30	5746.30
711201	OIL CLEAN KIT - 12 BARRELS	PCS	4500.00	4950.00	5643.00	7223.00
■ ACCESSORIES						
710702	OIL SPILL KIT PLASTIC BOX	PCS	O.R.	O.R.	O.R.	O.R.
710703	PROTECTIVE SUIT	PCS	O.R.	O.R.	O.R.	O.R.
710704	PROTECTIVE BOOTS	PAIR	O.R.	O.R.	O.R.	O.R.
710705	NON SPARKING SHOVEL	PCS	O.R.	O.R.	O.R.	O.R.
710706	NON SPARKING RAKE	PCS	O.R.	O.R.	O.R.	O.R.
710707	H.D. MOP	PCS	O.R.	O.R.	O.R.	O.R.
710708	NON SPARKING SCOOP	PCS	O.R.	O.R.	O.R.	O.R.
710709	NON SPARKING HAND SCRAPER	PCS	O.R.	O.R.	O.R.	O.R.
710710	H.D. SQUEEGEE	PCS	O.R.	O.R.	O.R.	O.R.
710711	DISPOSABLE PLASTIC BAGS 50 PCS	PCS	O.R.	O.R.	O.R.	O.R.
710712	H.D. WRINGER	PCS	O.R.	O.R.	O.R.	O.R.
710713	PROTECTIVE GLOVES	PAIR	O.R.	O.R.	O.R.	O.R.
■ SORBENTS						
• PADS						
711001	SORBENT PADS 100 pcs / bale, 10mm T x 42,5mm W x 48,3cm L	BALE	190.00	209.00	238.00	304.00
712001	SORBENT PADS 200 pcs / bale, 5mm T x 42,5mm W x 48,3cm L	BALE	220.00	242.00	276.00	353.00
• BOOMS						
686868	OIL BOOM FOR CALM SEA 25m	PCS	O.R.	O.R.	O.R.	O.R.
686869	OIL BOOM FOR OPEN SEA 25m	PCS	O.R.	O.R.	O.R.	O.R.
710402	SORBENT BOOM 510, 4 pcs x 3m (12,7cm Diameter)	BALE	272.00	313.00	360.00	410.00
• ROLLS						
710403	SORBENT ROLL 1 roll / bale, 76 cm W x 45m L	BALE	290.00	332.00	382.00	488.96
• POM POM						
710404	SORBENT POM POM 13 pcs, 3kgs / bale	BALE	180.00	205.00	235.00	300.80
• PILLOWS						
710401	SORBENT PILLOWS 10pcs / bale, 8Kgs / bale	BALE	186.00	214.00	246.00	314.90



BECAUSE WE JUST KEEP SHIPS MOVING



■ HOLD CLEANING SYSTEMS

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
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■ CARGO HOLDS CLEANING EQUIPMENT

750200	MARICHEM HOLD CLEANING SYSTEM 200 (M.H.C.S. 200)	UNIT	0.R	0.R	0.R	0.R
750251	HP TRIGGER 300	PCS	204.00	224.40	255.80	327.45
750252	HP TRIGGER 500	PCS	931.00	1024.10	1167.50	1494.40
750255	HP TURBONOZZLE 300-50	PCS	374.00	411.40	469.00	600.30
750256	HP TURBONOZZLE 500-25	PCS	979.00	1076.90	1227.65	1571.40
750257	HP TURBONOZZLE 500-30	PCS	979.00	1076.90	1227.65	1571.40
750261	NOZZLE, DIRECT SHOT 300-50 SET (3 PCS)	SET	86.00	94.60	107.85	138.05
750262	NOZZLE, DIRECT SHOT 500-25 SET (3 PCS)	SET	86.00	94.60	107.85	138.05
750263	NOZZLE, DIRECT SHOT 500-30 SET (3 PCS)	SET	86.00	94.60	107.85	138.05
750267	NOZZLE HOLDER FOR HPC MHCS-200	PCS	121.00	133.10	151.75	194.20
801010	MCM-200 COMPLETE W/HOSES & CONNECTORS	UNIT	2695.00	2965.00	3380.00	4326.00
801116	TELESCOPIC POLE 8MTR W/3 NOZZLES	PCS	1030.00	1133.00	1292.00	1654.00
801131	WATER JET GUN, TRIPOD MOUNTED	PCS	1155.00	1271.00	1449.00	1855.00
801123	3 PCS SPARE NOZZLES SET FOR TELESCOPIC POLE	SET	49.60	54.60	62.20	79.60
801119	BACK BELT FOR TELESCOPIC POLE	PCS	47.55	52.30	59.60	76.30

■ PERSONAL PROTECTIVE EQUIPMENT

710802	CHEMICAL PROTECTIVE SUIT - M	PCS	185.00	204.00	233.00	298.20
710803	CHEMICAL PROTECTIVE SUIT - L	PCS	185.00	204.00	233.00	298.20
710804	CHEMICAL PROTECTIVE SUIT - XL	PCS	185.00	204.00	233.00	298.20
710805	CHEMICAL PROTECTIVE SUIT - XXL	PCS	185.00	204.00	233.00	298.20
710811	FULL FACE CHEMICAL PROTECTIVE MASK	PCS	315.00	347.00	396.00	506.90
710815	FILTER ABEK2P3SL FOR CHEMICAL PROTECTIVE MASK	PCS	61.00	67.10	76.50	97.90
710821	CHEMICAL RESISTANT BOOTS	PAIR	82.00	90.20	102.80	131.60
710826	CHEMICAL RESISTANT GLOVES	PAIR	18.90	20.80	23.70	30.30

More Hold Cleaning Systems on the next page

▪ **AIR OPERATED PUMPS & ACCESSORIES**

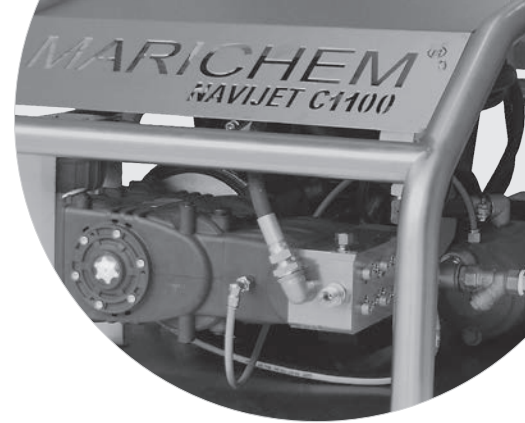
750301	SUBMERSIBLE PUMP 2540, 2" AIR OPERATED	PCS	2003.00	2203.30	2511.75	3215.10
750302	SUBMERSIBLE PUMP 2550, 2 1/2" AIR OPERATED	PCS	2915.00	3206.50	3655.40	4678.90
750303	DRUM OIL PUMP, AIR OPERATED	PCS	445.20	489.70	558.25	714.60
750311	SLOPS DISCHARGING HOSE 2", REINFORCED 50mtr COIL	COIL	0.R	0.R	0.R	0.R
750312	SLOPS DISCHARGING HOSE 2 1/2", REINFORCED 50mtr COIL	COIL	0.R	0.R	0.R	0.R
750316	AIR HOSE 3/4", 50mtr COIL	COIL	419.00	460.90	525.43	672.55
750317	AIR HOSE 5/16", 50mtr COIL	COIL	296.80	326.50	372.20	476.40

▪ **ELECTRIC OPERATED PUMPS & ACCESSORIES**

750304	SUBMERSIBLE PUMP E2521, 2" 1x230V/60Hz	UNIT	2173.00	2390.30	2724.95	3487.95
750305	SUBMERSIBLE PUMP E2521/3P, 2" 3X440V/60Hz	UNIT	2173.00	2390.30	2724.95	3487.95
750311	SLOPS DISCHARGING HOSE 2", REINFORCED 50mtr COIL	COIL	0.R	0.R	0.R	0.R
750325	ELECTR. EXTENSION CABLE 2P+E, 16A w/CONNECTORS IP67 - 50mtr	PCS	413.00	454.30	517.90	662.90
730331	ELECTR. EXTENSION CABLE 16A, 3P+E, w/CONNECTORS IP67 - 50m	PCS	488.00	536.80	611.95	783.30

▪ **PORTABLE ULTRASONIC CLEANING UNITS**

710321	MUC-20 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710321/30	MUC-30 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710315	MUC-60 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710316	MUC-100 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710317	MUC-120 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710318	MUC-160 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710319	MUC-200 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R
710322	MUC-300 ULTRASONIC CLEANER	UNIT	0.R	0.R	0.R	0.R



■ HIGH PRESSURE MACHINES

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
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■ HIGH PRESSURE CLEANING MACHINES

731501	NAVIJET C150S, 110V 50 HZ - 150 BAR	UNIT	0.R	0.R	0.R	0.R
732004	NAVIJET C200S-II 230V/60HZ - 200 BAR	UNIT	0.R	0.R	0.R	0.R
732002	NAVIJETC200A-II, 3X440V/60HZ, STAINLESS STEEL - 210 BAR	UNIT	3740.00	4114.00	4690.00	6003.20
733001	NAVIJET C300E-II, 3X440V/60HZ, STAINLESS STEEL - 280 BAR	UNIT	5170.00	5687.00	6483.00	8298.20
733502	NAVIJET C350E-A, 3X 440V / 60 HZ	UNIT	7900.00	8650.00	9550.00	11100.00
735001	NAVIJET C500E-III, 3x440V/60Hz, STAINLESS STEEL - 500 BAR	UNIT	9950.00	10945.00	12477.30	15970.75
731001	NAVIJET C1100E, 3x440V/60Hz, STAINLESS STEEL - 1100 BAR	UNIT	23200.00	25520.00	29092.80	37238.80

■ ACCESSORIES FOR HPC MACHINES

730201	HP EXTENSION HOSE 5/16", 300bar c/w CONNECTING ADAPTOR - 10m	PCS	284.00	312.40	356.10	455.80
730202	HP EXTENSION HOSE 5/16", 300bar c/w CONNECTING ADAPTOR - 15m	PCS	384.00	422.40	481.50	616.30
730203	HP EXTENSION HOSE 5/16", 300bar c/w CONNECTING ADAPTOR - 20m	PCS	483.00	531.30	605.70	775.30
730221	HP EXTENSION HOSE 3/8", 500bar c/w CONNECTING NIPPLE - 10m	PCS	403.00	443.30	505.40	646.90
730222	HP EXTENSION HOSE 3/8", 500bar c/w CONNECTING NIPPLE - 15m	PCS	549.00	603.90	688.45	881.20
730223	HP EXTENSION HOSE 3/8", 500bar c/w CONNECTING NIPPLE - 20m	PCS	694.00	763.40	870.30	1114.00
730141	TURBONOZZLE PACKAGE N200	SET	436.39	480.10	547.25	700.50
730116	TURBONOZZLE PACKAGE N300	SET	436.39	480.10	547.25	700.50
730142	TURBONOZZLE QR ATTACHMENT N500	SET	1623.95	1786.35	2036.45	2606.65
730190	REPAIR KIT FOR TURBONOZZLE N200	SET	122.90	135.20	154.10	197.30
730189	REPAIR KIT FOR TURBONOZZLE N300	SET	122.90	135.20	154.10	197.30
730158	REPAIR KIT FOR TURBONOZZLE N500	SET	570.60	627.65	715.55	915.90
730285	SANDBLASTING PACKAGE N200, COMPLETE	SET	288.40	317.25	361.65	462.90
730286	SANDBLASTING PACKAGE N300, COMPLETE	SET	288.40	317.25	361.65	462.90
730143	SANDBLASTING QR EQUIPMENT N500, COMPLETE	SET	1605.10	1765.60	2012.80	2576.40
730331	ELECTR. EXTENSION CABLE 16A, 3P+E, w/CONNECTORS IP67 - 50m	PCS	576.85	634.55	723.40	925.90
730179	ELECTR. EXTENSION CABLE 32A, 3P+E, w/CONNECTORS IP67 - 50m	PCS	790.00	869.00	990.65	1268.10
730166	ELECTR. EXTENSION CABLE 63A, 3P+E, w/CONNECTORS IP67 - 50m	PCS	1053.35	1158.70	1320.90	1690.80
730156	DOUBLE LANCE N500 c/w NOZZLES, 500bar	PCS	1034.55	1138.10	1297.30	1660.60
730249	LONG LANCE 2m N500 c/w NOZZLE HOLDER - 500bar	PCS	702.25	772.45	880.60	1127.20

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
730162	SHOULDER REST FOR SPRAY GUN N500	PCS	45.15	49.65	56.60	72.45
801116	TELESCOPIC POLE 8m w/3 NOZZLE PACK - 280bar	PCS	1172.50	1289.75	1470.30	1882.00
801119	BACK BELT FOR TELESCOPIC POLE	PCS	47.55	52.30	59.60	76.30
730196	ROTATING BRUSH PACKAGE, 800mm LANCE	PCS	369.95	406.90	463.90	593.80
730197	DRAIN/PIPE CLEANING PACKAGE w/HOSE 20MTR & MICRONOZZLE	PCS	489.10	538.00	613.35	785.10
750350	SLOP/DRAINAGE SYSTEM w/5MTR HOSE 2"	PCS	319.75	351.75	401.00	513.30
730287	CHEMICAL INJECTOR ADJUSTABLE, QUICK CONNECT	PCS	153.00	168.30	191.85	245.60
730119	GREASE FOR HP SEALS 50gr	PCS	49.90	54.90	62.60	80.10
730180	OIL FOR HIGH PRESSURE PUMPS 15W40, 1 LTR	LTR	47.65	52.40	59.75	76.50
730199	OIL FOR HPC PUMP, SYNTH. SAE 75W90	LTR	65.20	71.70	81.75	104.65



■ GASES & REFRIGERANTS

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
ANGOLA	Luanda	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
ARGENTINA	Bahia Blanca	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Buenos Aires	285.00	200.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Necochea	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rosario	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	San Lorenzo	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	San Nicolas	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
AUSTRALIA	Adelaide	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Brisbane	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Fremantle	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Gladstone	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Mackay	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Melbourne	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Newcastle	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Kembla	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Sydney	255.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BAHAMAS	Freeport	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BAHRAIN	Manama	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BANGLADESH	Chittagong	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BELGIUM	Antwerp	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ghent	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Zeebrugge	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BRAZIL	Paranagua	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Porto Alegre	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
	Recife	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rio de Janeiro	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rio Grande	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Salvador	360.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Santos	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Sao Francisco do Sul	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tubarao	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Vitoria	360.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
BULGARIA	Bourgas	235.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Varna	235.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CAMEROON	Douala	630.00	480.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CANADA	Halifax	270.00	210.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Montreal	235.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Quebec	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Vancouver	235.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CANARY ISLANDS	Las Palmas	360.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tenerife	360.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CHILE	Valparaiso	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CHINA	Dalian	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Fangcheng	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Guangzhou - Huangpu	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Huangdao	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Nantong	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ningbo	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Qingdao	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Qinhuangdao	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Shanghai	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Xiamen	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Xingang	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
COLOMBIA	Cartagena	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CONGO	Pointe-Noire	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
CROATIA	Rijeka	395.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CUBA	Havana	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
CYPRUS	Larnaca	250.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Limassol	250.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
DENMARK	Aalborg	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Aarhus	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Copenhagen	205.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Fredericia	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Kalundborg	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
DOMINICAN REP.	Santo Domingo	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
ECUADOR	Guayaquil	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
EGYPT	Alexandria	235.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Damietta	235.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Said	235.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Suez	235.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
ESTONIA	Tallinn	350.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
FINLAND	Kotka	230.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
FRANCE	Bordeaux	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Brest	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Dunkirk	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Fos	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	La Pallice	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Le Havre	195.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Marseilles	230.00	175.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Nantes	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rouen	265.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
GERMANY	Bremen	195.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Emden	195.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Hamburg	200.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Kiel	200.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rostock	200.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
GHANA	Tema	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
GIBRALTAR	Gibraltar	305.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
GREECE	Patra	185.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Pilos	185.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Piraeus	185.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Thessaloniki	185.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Volos	185.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
HONG KONG	Hong Kong	220.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
INDIA	Calcutta	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Chennai (Madras)	325.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Cochin	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Kandla	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Mumbai (Bombay)	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tuticorin	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Visakhapatnam	340.00	280.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
INDONESIA	Jakarta	275.00	210.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
IRELAND	Cork	290.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
ISRAEL	Haifa	630.00	480.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
ITALY	Augusta	290.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Bari	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Brindisi	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Civitavecchia	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Genoa	210.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Livorno	210.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Naples (Napoli)	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ravenna	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Savona	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Trieste	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Venice (Venezia)	260.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
IVORY COAST	Abidjan	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
JAMAICA	Kingston	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
JAPAN	Chiba	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Kobe	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Moji Port	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Nagoya	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Osaka	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tokyo	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Yokohama	270.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
JORDAN	Al Aqabah	330.00	250.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
KOREA (SOUTH)	Inchon	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Pusan	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ulsan	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
KUWAIT	Kuwait	280.00	225.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
LATVIA	Riga	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ventspils	225.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
LEBANON	Beirut	330.00	250.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
LITHUANIA	Klaipeda	330.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
MALAYSIA	Penang	260.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Klang	260.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
MALTA	Valletta	255.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
MEXICO	Coatzacoalcos	335.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Lazaro Cardenas	335.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Manzanillo	335.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tampico	335.00	230.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Veracruz	310.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
MOROCCO	Casablanca	520.00	440.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NAMIBIA	Walvis Bay	310.00	240.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NETHERLANDS	Amsterdam	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Delfzijl	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Flushing	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
	Moerdijk	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Rotterdam	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Terneuzen	185.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NETH. ANTILLES	Curacao	360.00	245.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NEW ZEALAND	Auckland	225.00	175.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NIGERIA	Lagos	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
NORWAY	Bergen	200.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Haugesund	230.00	155.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Kristiansund	215.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Larvik	230.00	155.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Oslo	200.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Stavanger	215.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
OMAN	Salalah	190.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PAKISTAN	Karachi	285.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PANAMA	Balboa	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Cristobal	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PERU	Callao	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PHILIPPINES	Davao	195.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Manila	195.00	145.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
POLAND	Gdansk	215.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Gdynia	215.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Szczecin	215.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PORTUGAL	Leixoes	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Lisbon	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Setubal	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Sines	265.00	205.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
PUERTO RICO	San Juan	390.00	270.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
QATAR	Doha	195.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
ROMANIA	Constanta	235.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Mangalia	235.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Midia	235.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
RUSSIA	Murmansk	250.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Novorossiysk	250.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	St. Petersburg	190.00	135.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SAUDI ARABIA	Dammam	295.00	235.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Jeddah	295.00	235.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SENEGAL	Dakar	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SINGAPORE	Singapore	185.00	115.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SOUTH AFRICA	Cape Town	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Durban	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	East London	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Elizabeth	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Richards Bay	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Saldanha Bay	220.00	170.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SPAIN	Algeciras	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Barcelona	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Bilbao	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Cadiz	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Cartagena	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Gijon	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	La Coruna	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Seville	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tarragona	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Valencia	290.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SRI LANKA	Colombo	280.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SWEDEN	Gothenburg	215.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Stockholm	215.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
SYRIA	Tartus	410.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
TAIWAN	Kaohsiung	240.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Keelung	240.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
THAILAND	Bangkok	225.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Ko Si Chang	225.00	160.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
TRINIDAD & TOB.	Port of Spain	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
TUNISIA	Tunisia	750.00	490.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
TURKEY	Istanbul	210.00	140.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
UKRAINE	Odessa	330.00	250.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
UNIT.ARAB EMIR.	Dubai	185.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Fujairah	185.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Jebel Ali	185.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Khor Fakkan	185.00	150.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
UNITED KINGDOM	Aberdeen	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Belfast	290.00	210.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Cardiff	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Falmouth	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Grimsby	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Hull	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Immingham	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Liverpool	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	London (Tilbury)	250.00	165.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Middlesbrough	260.00	180.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
U.S.A.	Baltimore MD	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Beaumont TX	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Boston MA	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Charleston SC	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Corpus Christi TX	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Houston TX	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Jacksonville FL	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Los Angeles CA	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
Miami FL	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	

COUNTRY	PORT	AC-40	OX-40	N-50	AR-50	R-22	R-134A	R-404A	R-407C	R-417A	R-422D	R-450A	R-513A	R-448A	R-449A	R-407H
	Mobile AL	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	New Orleans LA	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	New York NY	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Norfolk VA	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Philadelphia PE	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Arthur TX	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Port Canaveral FL	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Portland OR	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	San Francisco CA	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	San Diego CA	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Savannah GEO	260.00	215.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Seattle WA	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Tampa FL	220.00	185.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
URUGUAY	Montevideo	315.00	220.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
VENEZUELA	La Guaira	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Maracaibo	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Puerto Cabello	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Puerto la Cruz	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Puerto Ordaz	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
	Punta Cardon	390.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
VIETNAM	Ho Chi Minh	270.00	195.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
VIRGIN ISL.(USA)	St. Croix	420.00	285.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.
YEMEN	Aden	520.00	440.00	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.	O.R.

IMPORTANT REMARKS

- REFRIGERANTS ARE AVAILABLE AT ALL ABOVE MENTIONED PORTS. DUE TO FREQUENT CHANGES ON LOCAL REGULATIONS AND INSTABILITY OF REFRIGERANT MARKET, THEIR PRICES ARE AVAILABLE UPON REQUEST.
- MARICHEM MARIGASES DISTRIBUTES: R404A - R407C - R417A - R422D - R134A, AS WELL AS OTHER TYPES OF REFRIGERANTS.
- NITROGEN AND ARGON OF TECHNICAL GRADE, HIGH PURITY NITROGEN, AND CALIBRATION MIXTURES ARE AVAILABLE UPON REQUEST AT ALL MAJOR PORTS.



BECAUSE WE JUST KEEP SHIPS MOVING



■ GAS WELDING & CUTTING EQUIPMENT

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ CYLINDER						
324002	OX - 40 CYLINDER, EMPTY	CYL	390.00	390.00	390.00	390.00
324001	AC - 40 CYLINDER, EMPTY	CYL	390.00	390.00	390.00	390.00
325011	Ar - 50 CYLINDER, EMPTY	CYL	390.00	390.00	390.00	390.00
325012	Ar / CO ₂ CYLINDER, EMPTY	CYL	390.00	390.00	390.00	390.00
325031	N - 50 CYLINDER, EMPTY	CYL	390.00	390.00	390.00	390.00
325033	N - 10 CYLINDER, EMPTY	CYL	260.00	260.00	260.00	260.00
330255	REFRIGERANT CYLINDER 12.3LTR, EMPTY	CYL	190.00	190.00	190.00	190.00
325622	REFRIGERANT CYLINDER 56LTR, EMPTY	CYL	190.00	190.00	190.00	190.00
■ CYLINDER PARTS						
332465	TOP VALVE - ACETYLENE	PCS	63.70	70.10	79.80	102.30
332466	TOP VALVE - OXYGEN	PCS	65.40	71.95	82.00	104.95
332464	TOP VALVE - ARGON / NITROGEN / SPAN GAS	PCS	68.90	75.80	86.45	110.65
332463	TOP VALVE - REFRIGERANT	PCS	98.45	108.30	123.45	158.00
332467	VALVE PROTECTION CAP	PCS	30.70	33.75	38.45	49.25
■ MAIN GAS WELDING & CUTTING EQUIPMENT						
• BASIC WELDING & CUTTING TOOLS						
332468	GAS WELDING & CUTTING KIT in metal case	PCS	810.00	891.00	1015.75	1300.15
332469	WELDING TORCH HANDLE - complete w/sockets & nuts 3/8"	PCS	248.00	272.80	310.00	398.10
332470	3 TUBES CUTTING ATTACHMENT 900	PCS	265.00	291.50	332.30	425.35
332479	CUTTING NOZZLE 3 - 10mm	PCS	41.00	45.10	51.40	65.80
332480	CUTTING NOZZLE 10 - 25mm	PCS	41.00	45.10	51.40	65.80
332481	CUTTING NOZZLE 25 - 50mm	PCS	41.00	45.10	51.40	65.80
332482	CUTTING NOZZLE 50 - 100mm	PCS	41.00	45.10	51.40	65.80
332471	WELDING ATTACHMENT 0.5 - 1mm (No 1)	PCS	65.00	71.50	81.50	104.35
332472	WELDING ATTACHMENT 1 - 2mm (No 2)	PCS	65.00	71.50	81.50	104.35
332473	WELDING ATTACHMENT 2 - 4mm (No 3)	PCS	68.00	74.80	85.30	109.15
332474	WELDING ATTACHMENT 4 - 6mm (No 4)	PCS	68.00	74.80	85.30	109.15
332475	WELDING ATTACHMENT 6 - 9mm (No 5)	PCS	68.00	74.80	85.30	109.15

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
332476	WELDING ATTACHMENT 9 - 14mm (No 6)	PCS	68.00	74.80	85.30	109.15
332477	WELDING ATTACHMENT 14 - 20mm (No 7)	PCS	68.00	74.80	85.30	109.15
332478	WELDING ATTACHMENT 20 - 30mm (No 8)	PCS	68.00	74.80	85.30	109.15
332502	SPARE O-RING SET (5 PCS)	SET	12.50	13.75	15.65	20.10
332484	CUTTING ROLLER GUIDE	PCS	85.00	93.50	106.59	136.44
332499	SPANNER	PCS	22.00	24.20	27.60	35.30
332483	CUTTING CIRCULAR BAR AND CENTER	PCS	70.00	77.00	87.80	112.35
332485	CLEANING NEEDLES	SET	37.00	40.70	46.40	59.40
332650	NOZZLE RETAINER NUT	PCS	20.50	22.60	25.70	32.90
332651	WELDING ATTACHMENT NUT	PCS	20.50	22.60	25.70	32.90

▪ REGULATORS, GAUGES & FLASHBACK ARRESTORS

• REGULATORS

332486	REGULATOR FOR ACETYLENE CYLINDER	PCS	285.00	313.50	357.40	457.45
332487	REGULATOR FOR OXYGEN CYLINDER	PCS	285.00	313.50	357.40	457.45
332640	REGULATOR FOR ARGON & NITROGEN CYLINDER	PCS	323.00	355.30	405.05	518.45
332645	REGULATOR FOR ARGON & NITROGEN W/FLOWMETER 0-16 ltr/min	PCS	330.00	363.00	413.80	529.70
332646	REGULATOR FOR ARGON & NITROGEN W/FLOWMETER 0-32 ltr/min	PCS	330.00	363.00	413.80	529.70
332643	GAUGE GUARD FOR ACETYLENE REGULATOR - 2 PCS	SET	55.00	60.50	68.95	88.30
332644	GAUGE GUARD FOR OXYGEN REGULATOR - 2 PCS	SET	55.00	60.50	68.95	88.30

• GAUGES

332490	CONTENT GAUGE FOR ACETYLENE (0 - 40 BAR)	PCS	65.00	71.50	81.50	104.35
332491	WORKING GAUGE FOR ACETYLENE (0 - 2.5 BAR)	PCS	65.00	71.50	81.50	104.35
332492	CONTENT GAUGE FOR OX/N/Ar (0 - 315 BAR)	PCS	65.00	71.50	81.50	104.35
332493	WORKING GAUGE FOR OX/N/Ar (0 - 16 BAR)	PCS	65.00	71.50	81.50	104.35

• FLASHBACK ARRESTORS

332489	FLASHBACK ARRESTOR FOR ACETYLENE CYLINDER	PCS	350.00	385.00	438.90	561.80
332488	FLASHBACK ARRESTOR FOR OXYGEN CYLINDER	PCS	350.00	385.00	438.90	561.80
332569	FLASHBACK ARRESTOR FOR ACETYLENE HOSE	PCS	63.00	69.30	79.00	101.00
332568	FLASHBACK ARRESTOR FOR OXYGEN HOSE	PCS	63.00	69.30	79.00	101.00
332588	FLASHBACK ARRESTOR ON HANDLE 3/8" L	PCS	63.00	69.30	79.00	101.00
332589	FLASHBACK ARRESTOR ON HANDLE 1/4" R	PCS	63.00	69.30	79.00	101.00
332751	WASHER FOR AC REGULATOR - SET OF 10 PCS	SET	13.60	15.00	17.10	21.90
332752	WASHER FOR OX REGULATOR - SET OF 10 PCS	SET	13.60	15.00	17.10	21.90

▪ HOSES, FITTINGS & COUPLINGS

• HOSES

332494	TWIN HOSE 1/4" (6.30 mm) - RED / BLUE	MTR	9.30	10.20	11.70	14.90
332597	TWIN HOSE 5/16" (7.90 mm) - RED / BLUE	MTR	9.30	10.20	11.70	14.90
332496	AC HOSE 1/4" (6.30 mm) - RED	MTR	4.80	5.30	6.00	7.60

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
332495	OX HOSE 1/4" (6.30 mm) - BLUE	MTR	4.80	5.30	6.00	7.60
332600	AC HOSE 5/16" (7.90 mm) - RED	MTR	4.80	5.30	6.00	7.60
332598	OX HOSE 5/16" (7.90 mm) - BLUE	MTR	4.80	5.30	6.00	7.60

• FITTINGS

332501	AC HOSE JOINT 1/4" (6.30mm) - LEFT	PCS	31.80	35.00	39.90	51.10
332500	OX HOSE JOINT 1/4" (6.30mm) - RIGHT	PCS	31.80	35.00	39.90	51.10
332561	AC HOSE JOINT 3/8" (9.50mm) - LEFT	PCS	31.80	35.00	39.90	51.10
332560	OX HOSE JOINT 3/8" (9.50mm) - RIGHT	PCS	31.80	35.00	39.90	51.10

• COUPLINGS

332582	AC QUICK COUPLING - FOR HOSE	SET	79.00	87.20	99.50	127.00
332581	OX QUICK COUPLING - FOR HOSE	SET	79.00	87.20	99.50	127.00
332584	AC QUICK COUPLING - FOR TORCH	SET	65.00	71.50	81.50	104.00
332583	OX QUICK COUPLING - FOR TORCH	SET	65.00	71.50	81.50	104.00
332586	AC QUICK COUPLING - FOR REGULATOR	SET	84.00	92.40	105.30	134.80
332585	OX QUICK COUPLING - FOR REGULATOR	SET	84.00	92.40	105.30	134.80

▪ EQUIPMENT & PPE

332562	WELDING GOGGLES 50mm - FLIP FRONT	PCS	26.50	29.20	33.30	42.60
332503	WELDING GOGGLES 50mm - SOFT FRAME	PCS	19.20	21.20	24.10	30.90
332504	COVER LENS 50mm - DARK	PCS	4.50	4.90	5.60	7.20
332505	COVER LENS 50mm - CLEAR	PCS	3.10	3.40	3.90	5.00
332659	SAFETY SPECTACLES - CLEAR	PCS	45.50	50.00	57.00	73.00
332506	GAS LIGHTER	PCS	20.60	22.65	25.85	33.10
332507	SPARE FLINTS - SET OF 10 PCS	SET	19.50	21.45	24.45	31.30
332621	WELDER'S CHALK - BOX OF 144PCS	BOX	68.00	74.80	85.25	109.15
363895	HOSE CLIPS SET. 1/4"-3/8" - 10PCS	SET	25.00	27.50	31.35	40.10
332456	2 CYLINDERS TROLLEY (OX/AC)	PCS	950.00	1045.00	1191.30	1524.85

▪ GAS WELDING & BRAZING CONSUMABLES - RODS

• GAS WELDING CABINET

333053	GAS WELDING CABINET - FULL	PCS	3750.00	4125.00	4702.50	6019.20
333054	GAS WELDING CABINET - EMPTY	PCS	980.00	1078.00	1228.90	1573.10

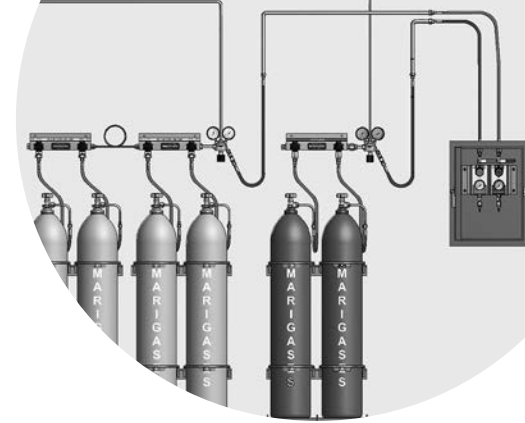
• RODS FOR MILD STEEL

332524	MS ROD Φ 2.0x500mm (/ kgr)	KGR	18.50	20.35	23.20	29.70
332525	MS ROD Φ 3.0x500mm (/ kgr)	KGR	17.50	19.25	21.95	28.00

• RODS AND FLUX FOR ALUMINUM

332526	ALUMINUM BRAZING ROD Φ 3.2x500mm (/ 0.5 kgr)	0.5 KGR	44.50	48.90	55.80	71.40
332533	ALUMINUM BRAZING POWDER - 250 gr	JAR	67.40	74.10	84.50	108.20

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
• BRAZING RODS & FLUX FOR JOINING						
332591	BRONZE ALLOY ROD Φ 2.0x500mm (/ kgr)	KGR	56.80	62.45	71.20	91.15
332571	BRONZE ALLOY ROD Φ 3.0x500mm (/ kgr)	KGR	53.60	58.95	67.20	86.00
332532	BRONZE BRAZING POWDER - 250 gr	JAR	46.00	50.60	57.70	73.80
• BRAZING RODS FOR JOINING & SURFACING - FLUXCOATED						
332529	BRONZE FLUXCOATED ROD Φ 2.0x500mm (/ kgr)	KGR	162.00	178.20	203.10	260.00
332530	BRONZE FLUXCOATED ROD Φ 3.0x500mm (/ kgr)	KGR	150.00	165.00	188.10	240.75
332759	WEARBRO FC ROD Φ 3.0x500mm (/ kgr)	KGR	210.00	231.00	263.35	337.10
• SILVER BRAZING RODS & FLUX						
332527	S60 SILVER ALLOY FC ROD Φ 2.0x500mm (/ 0.5 kgr)	0.5 KGR	780.00	858.00	978.00	1252.00
332528	S45 SILVER ALLOY FC ROD Φ 2.0x500mm (/ 0.5 kgr)	0.5 KGR	645.00	710.00	809.00	1035.00
332531	SILVER BRAZING POWDER FOR S60 & S45 RODS - 250gr	JAR	65.00	71.50	81.50	104.50



■ CENTRAL GAS SUPPLY SYSTEM & PARTS

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ CENTRAL GAS INSTALLATION ACCESSORIES						
333161	SINGLE AC VALVE w/BRACKET & NON RETURN VALVE	PCS	350.00	385.00	438.90	561.70
333162	SINGLE OX VALVE w/BRACKET & NON RETURN VALVE	PCS	350.00	385.00	438.90	561.70
332610/A	2 AC CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	820.00	902.00	1028.20	1316.20
332610	2 OX CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	820.00	902.00	1028.20	1316.20
332611/A	3 AC CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	1120.00	1232.00	1404.50	1797.80
332611	3 OX CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	1120.00	1232.00	1404.50	1797.80
332612	4 OX CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	1360.00	1496.00	1705.40	2183.00
332613	6 OX CYLINDERS BATTERY (L/R Outlet) COMPLETE WITH T - VALVES	PCS	1850.00	2035.00	2320.00	2969.50
332657	AC BATTERIES CONNECTING PIPE - spare	PCS	140.00	154.00	175.56	224.72
332658	OX BATTERIES CONNECTING PIPE - spare	PCS	140.00	154.00	175.56	224.72
332672	1 CYLINDER HOLDER HD. COMPLETE W/CLAMP	SET	255.00	280.50	319.75	409.30
332673	2 CYLINDERS HOLDER HD. COMPLETE W/CLAMPS	SET	405.00	445.50	507.90	650.10
332674	CYLINDER'S CLAMP	PCS	54.00	59.40	67.72	86.70

■ CABINETS & OUTLET STATIONS

332625	4 CYLINDERS CABINET	PCS	0.R	0.R	0.R	0.R
332624	2 CYLINDERS CABINET	PCS	0.R	0.R	0.R	0.R
332605	GAS OUTLET STATION - COMPLETE	PCS	2300.00	2530.00	2884.20	3692.00
332665	GAS OUTLET STATION METALLIC BOX W/O BRACKET INSIDE	PCS	635.00	698.50	796.30	1019.25
332661	WORKSTATION OXYGEN FOR GAS OUTLET STATION W/O BRACKET	PCS	850.00	935.00	1065.90	1365.00
332662	WORKSTATION ACETYLENE FOR GAS OUTLET STATION W/O BRACKET	PCS	850.00	935.00	1065.90	1365.00
332663	BRACKET FOR WORKSTATIONS OF OX/AC	PCS	99.00	108.90	124.15	158.90

■ HIGH & LOW PRESSURE HOSES & EXPANSION PIPES

332721	AC HIGH PRES. FLEXIBLE HOSE	PCS	325.00	357.50	407.55	521.65
332722	OX HIGH PRES. FLEXIBLE HOSE	PCS	325.00	357.50	407.55	521.65
332724	AC LOW PRES. EXPANSION FLEXIBLE HOSE (CYLINDER BATTERY SIDE)	PCS	325.00	357.50	407.55	521.65
332723	OX LOW PRES. EXPANSION FLEXIBLE HOSE (CYLINDER BATTERY SIDE)	PCS	325.00	357.50	407.55	521.65
332725	AC LOW PRES. FLEXIBLE HOSE (GAS OUTLET STATION SIDE)	PCS	325.00	357.50	407.55	521.65
332726	OX LOW PRES. FLEXIBLE HOSE (GAS OUTLET STATION SIDE)	PCS	325.00	357.50	407.55	521.65

▪ **CENTRAL REGULATORS WITH SPARES**

332301	REGULATOR ACETYLENE for CGSS	PCS	385.00	423.50	482.80	618.00
332302	REGULATOR OXYGEN for CGSS	PCS	385.00	423.50	482.80	618.00
332490	CONTENT GAUGE FOR ACETYLENE (0 - 40 BAR)	PCS	69.00	75.90	86.50	110.75
332491	WORKING GAUGE FOR ACETYLENE (0 - 2.5 BAR)	PCS	69.00	75.90	86.50	110.75
332492	CONTENT GAUGE FOR OX / N / Ar (0 - 315 BAR)	PCS	69.00	75.90	86.50	110.75
332493	WORKING GAUGE FOR OX / N / Ar (0 - 16 BAR)	PCS	69.00	75.90	86.50	110.75
332751	WASHER FOR AC REGULATOR - SET OF 10 PCS	SET	13.60	15.00	17.10	21.90
332752	WASHER FOR OX REGULATOR - SET OF 10 PCS	SET	13.60	15.00	17.10	21.90

▪ **SIGNS**

333171	SIGNS - SET FOR ENTRANCE DOOR	SET	195.00	214.50	244.50	313.00
333172	SIGNS - SET FOR GAS CENTRAL	SET	105.00	115.50	131.70	168.55
333173	SIGNS - SET FOR GAS OUTLET STATION	SET	105.00	115.50	131.70	168.55



■ ARC WELDING MACHINES, EQUIPMENT & ACCESSORIES

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ ARC WELDING MACHINES - INVERTERS						
332564/1	MARIGASES 160, 230V - MMA	UNIT	1408.00	1548.80	1765.65	2260.00
333024	MARIGASES MGI-32, 3x400 - 440V - MMA	UNIT	5038.00	5542.00	6317.65	8086.60
730331	ELECTR. EXTENSION CABLE 16A, 3P+E, w/CONNECTORS IP67 - 50m	PCS	506.00	556.60	634.50	812.20
■ ARC WELDING CABINETS						
333051	ARC WELDING CABINET FULL	PCS	2920.00	3210.00	3660.00	4680.00
333052	ARC WELDING CABINET EMPTY	PCS	1120.00	1230.00	1400.00	1790.00
■ ARC WELDING EQUIPMENT & ACCESSORIES						
332566	WELDING CABLE 50mm ² - 400A	MTR	21.10	23.20	26.50	33.90
332567	WELDING CABLE 70mm ² - 500A	MTR	28.50	31.30	35.70	45.70
332511	CABLE CONNECTOR MALE 35 - 50mm ²	PCS	34.60	38.10	43.40	55.55
332512	CABLE CONNECTOR FEMALE 35 - 50mm ²	PCS	34.60	38.10	43.40	55.55
332513	CABLE CONNECTOR MALE 50 - 70mm ²	PCS	37.80	41.60	47.40	60.65
332514	CABLE CONNECTOR FEMALE 50 - 70mm ²	PCS	37.80	41.60	47.40	60.65
332630	SAFETY CABLE CONNECTOR SET (M & F)	SET	82.00	90.20	102.80	131.60
332515	ELECTRODE HOLDER 400A	PCS	58.10	63.90	72.80	93.20
332559	ELECTRODE HOLDER 600A	PCS	65.20	71.70	81.80	104.70
332636	ELECTRODE HOLDER - SAFETY TYPE	PCS	82.80	91.10	103.83	132.90
332648	GROUND CLAMP	PCS	36.90	40.60	46.30	59.30
332522	WIRE BRUSH	PCS	8.70	9.60	10.90	13.95
332523	CHIPPING HAMMER	PCS	40.00	44.00	50.15	64.20
332603	CABLE DRUM WITH CRANK	PCS	585.00	644.00	734.00	939.00
332711	HEATED ELECTRODES QUIVERS - 110V	PCS	710.00	781.00	890.30	1140.00
■ ARC WELDING PROTECTIVE EQUIPMENT						
332516	FACE SHIELD WITH ADJUSTABLE HEADBAND	PCS	89.90	98.90	112.75	144.30
332517	FACE SHIELD WITH HANDLE	PCS	62.20	68.40	78.00	99.85
332647	FACE SHIELD - AUTOVISION TYPE	PCS	205.00	225.50	257.10	329.05

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
332520	SPARE LENS 90x110mm - DARK	PCS	14.00	15.40	17.55	22.45
332521	SPARE LENS 90x110mm - CLEAR	PCS	4.50	5.00	5.70	7.30
332570	SPATS - LEATHER	PAIR	98.20	108.00	123.10	157.60
332519	WELDING APRON - LEATHER	PCS	95.10	104.60	119.20	152.60
332518	WELDING GLOVES - LEATHER	PAIR	27.00	29.70	33.85	43.35
332712	WELDING SLEEVES - LEATHER	PAIR	83.50	91.85	104.70	134.10
332668	WELDING CURTAIN	PCS	212.00	233.20	265.80	340.20
332714	WELDER'S JACKET - LEATHER	PCS	560.00	616.00	702.20	898.90
332713	WELDER'S TROUSERS - LEATHER	PAIR	540.00	594.00	677.15	866.80

▪ **ARC WELDING CONSUMABLES (/Kgr) ELECTRODES**

• **ELECTRODES FOR MILD STEEL [/ kgr]**

332537	MGPO	Ø 2.6mm	KGR	14.50	15.95	18.20	23.25
332538	MGPO	Ø 3.2mm	KGR	12.20	13.40	15.30	19.60
332539	MGPO	Ø 4.0mm	KGR	14.40	15.85	18.05	23.15
332574	MHOP	Ø 3.2mm	KGR	12.60	13.85	15.80	20.25
332575	MHOP	Ø 4.0mm	KGR	12.90	14.20	16.20	20.70
332595	MHOP	Ø 5.0mm	KGR	13.20	14.50	16.55	21.20

• **ELECTRODES FOR UNALLOYED AND LOW ALLOYED STEEL [/ kgr]**

332540	MLH	Ø 2.6mm	KGR	17.20	18.90	21.60	27.60
332541	MLH	Ø 3.2mm	KGR	12.10	13.30	15.20	19.45
332542	MLH	Ø 4.0mm	KGR	11.40	12.55	14.30	18.30
332593	MLHT	Ø 2.6mm	KGR	24.90	27.40	31.20	39.95
332594	MLHT	Ø 3.2mm	KGR	23.20	25.50	29.10	37.25
332543	MLHV	Ø 3.2mm	KGR	18.80	20.70	23.60	30.20
332544	MLHV	Ø 4.0mm	KGR	16.80	18.50	21.10	27.00
332576	MLHV	Ø 5.0mm	KGR	19.10	21.00	23.95	30.65
333136	MLHH	Ø 4.0mm	KGR	15.90	17.50	19.95	25.50
333137	MLHH	Ø 5.0mm	KGR	16.60	18.25	20.80	26.65
333121	MLHR	Ø 2.6mm	KGR	43.40	47.75	54.45	69.65
333122	MLHR	Ø 3.2mm	KGR	41.90	46.10	52.55	67.25
333134	MLHL	Ø 2.6mm	KGR	23.10	25.40	29.00	37.10
333135	MLHL	Ø 3.2mm	KGR	21.90	24.10	27.40	35.15
333126	MSPECIAL	Ø 2.6mm	KGR	20.50	22.55	25.70	32.90
333127	MSPECIAL	Ø 3.2mm	KGR	14.90	16.40	18.70	23.90
333128	MSPECIAL	Ø 4.0mm	KGR	13.20	14.50	16.55	21.20

• **ELECTRODES FOR STAINLESS STEEL [/ kgr]**

332545	MSS 18/8V	Ø 2.0mm	KGR	105.00	115.50	131.65	168.55
332546	MSS 18/8V	Ø 2.6mm	KGR	95.00	104.50	119.15	152.50
332577	MSS 18/8V	Ø 3.2mm	KGR	109.00	119.90	136.70	174.90
332547	MSSM 23/14V	Ø 2.6mm	KGR	114.00	125.40	142.95	182.95
332548	MSSM 23/14V	Ø 3.2mm	KGR	98.00	107.80	122.90	157.30
332549	MSSM 23/14V	Ø 4.0mm	KGR	84.00	92.40	105.35	134.85
333131	MDUPLEX	Ø 2.6mm	KGR	98.00	107.80	122.90	157.30
333132	MDUPLEX	Ø 3.2mm	KGR	79.00	86.90	99.10	126.80

• **ELECTRODES FOR CAST IRON (/ kgr)**

332550	MNICKEL	Ø 2.6mm	KGR	185.00	203.00	232.00	296.00
332551	MNICKEL	Ø 3.2mm	KGR	204.00	224.00	255.00	326.00
332552	MNIFE	Ø 3.2mm	KGR	180.00	198.00	225.00	288.00
332553	MNIFE	Ø 4.0mm	KGR	192.00	211.00	240.00	307.00

• **ELECTRODES FOR COPPER, BRASS, BRONZE AND ALUMINUM (/ kgr)**

332554	ALBRONZE	Ø 3.2mm	KGR	245.00	269.00	307.00	392.00
332555	ALUMINUM	Ø 3.2mm	KGR	162.00	178.00	203.00	260.00
332556	TINBRO	Ø 3.2mm	KGR	198.00	217.00	247.00	216.00

• **ELECTRODES FOR SPECIAL APPLICATIONS ON STEEL (/ kgr)**

332578	MTENSILE	Ø 3.2mm	KGR	137.00	150.00	171.00	219.00
332557	MTENSILE	Ø 4.0mm	KGR	151.00	166.00	189.00	242.00
332579	MIMPACT	Ø 3.2mm	KGR	358.00	394.00	449.00	574.00
332580	MIMPACT	Ø 4.0mm	KGR	358.00	394.00	449.00	574.00
333123	MWEARMAX	Ø 2.6mm	KGR	82.00	90.00	102.00	130.00
333124	MWEARMAX	Ø 3.2mm	KGR	74.00	81.00	92.00	117.00
333125	MWEARMAX	Ø 4.0mm	KGR	72.00	79.00	90.00	115.00
333133	MCH	Ø 3.2mm	KGR	68.00	75.00	85.00	108.00

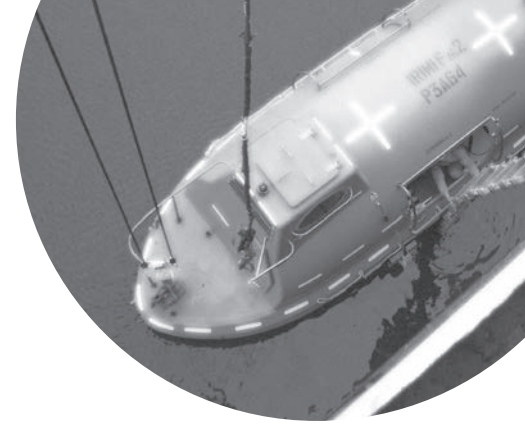


■ REFRIGERATION PRODUCTS

ORDER No	PRODUCT DESCRIPTION	UNIT	ZONE 1	ZONE 2	ZONE 3	ZONE 4
■ REFRIGERANT RECOVERY SYSTEM						
380006	REFRIGERANT RECOVERY CYLINDER	PCS	190.00	190.00	190.00	190.00
333107/1	RECOVERY UNIT WITH CONNECTION KIT/110V, 60 Hz	PCS	2180.00	2398.00	2734.00	3500.00
333108/1	RECOVERY UNIT WITH CONNECTION KIT/220V, 50-60 Hz	PCS	2180.00	2398.00	2734.00	3500.00
333104	ELECTRONIC CHARGING SCALE	PCS	550.00	605.00	689.70	882.80
333106	ELECTRONIC LEAK DETECTOR in STURDY CASE w/2 spare sensors	PCS	485.00	533.50	608.20	778.50
333105	VACUUM GAUGE. DIGITAL in PROTECTIVE CASE	PCS	495.00	544.50	620.75	794.55
333103	VACUUM PUMP (110V/220V, 50-60 Hz)	PCS	1220.00	1342.00	1529.90	1958.25
333092	4-WAY MANIFOLD IN SPECIAL PROTECTIVE CASE	PCS	610.00	671.00	764.95	979.10
333093	CHARGING HOSE SET 3x1.8m SET	SET	228.00	250.80	285.90	366.00
525255	REFRIGERATION ADAPTORS SET	SET	72.00	79.00	90.00	115.00
333185	SPARE FILTER DRIER FOR RRU	PCS	52.00	57.20	65.20	83.50
333120	SPARE SENSOR SET FOR ELECTR. LEAK DETECTOR - SET OF 3 PCS	SET	90.00	99.00	112.85	144.50
■ REFRIGERATION EQUIPMENT & TOOLS						
333091	2 - WAY MANIFOLD SET in PROTECTIVE CASE	PCS	490.00	539.00	614.45	786.50
333094	CHARGING HOSE 1/4 1.8m - YELLOW	PCS	108.00	119.00	135.00	172.00
333095	CHARGING HOSE 3/8 1.8m - YELLOW	PCS	108.00	119.00	135.00	172.00
525255	REFRIGERATION ADAPTORS SET	SET	72.00	79.00	90.00	115.00
333114	REFRIGERATION TOOL BOX SET	PCS	585.00	643.00	733.00	938.00
333117	TUBE CUTTER 1/8" - 1 1/8"	PCS	56.80	62.50	71.25	91.20
333116	FLARING TOOL 3/16"- 5/8" & 5mm to 16mm O.D.	PCS	72.60	79.85	91.05	116.55
333118	INNER-OUTTER REAMER 1/4" - 1 5/8" O.D.	PCS	40.00	44.00	50.15	64.20
333115	RATCHET WRENCH 1/4", 1/2", 5/16", 3/8"	PCS	42.10	46.30	52.80	67.60
333119	ADJUSTABLE WRENCH 12"	PCS	35.00	38.50	43.90	56.15
333109	INFRARED THERMOMETER	PCS	105.00	115.50	131.70	168.55
333110	HAND OIL PUMP FOR REFRIGERATION SYSTEMS	PCS	258.00	283.00	322.00	412.00



BECAUSE WE JUST KEEP SHIPS MOVING



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- Breathing Apparatus sets.
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- Immersion suits, Thermal protective aid.
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- Pyrotechnical equipment.

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