



# **CARGO - HOLD COATING & CLEANING SOLUTIONS**

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## COATING CHEMICALS

### ER-COAT EASY

Water-based product specially formulated to make a thin, temporary film layer on cargo-hold surfaces to protect the cargo walls from cement, sulphur, petcoke and coal. It is non-corrosive and safe to use on all coatings.

## CARGO-HOLD CLEANING CHEMICALS

### BAUXITE REMOVER

Acid-based cleaning product for cleaning bauxite stains from cargo tanks.

### ERCLEAN-PCS

Concentrated liquid produced to remove petcoke from cargo and storage tanks. With its strong formulation ERCLEAN-PCS also eliminates unpleasant odors and mineral deposits from tanks and closed areas.

### ER-APC AQUA

Heavy duty water based alkaline cleaner. It has cleaning applications including removal of greases, waxes, vegetables and animal oils, sludge, soot, carbon deposits, coal residues, inert gas residues, dirt and grime. It is appropriate with all cleaning methods. It can be applied by brush, hand spray, high and low pressure washing machines, etc. It is a highly foaming product nevertheless, it can also be used together with foam agent if needed.

### ER-AC

A strong water based alkaline cleaner and degreaser. It is used for numerous cleaning applications including cleaning of vegetable oils, animal oils, fatty acids, fish oils, greases, waxes, oil, sludge, soot, carbon deposits, general dirt, grime and inert gas soot. ER-AC is also used as a cargo hold cleaner after coal and pet coke cargoes.

### CEMENT REMOVER

Effective strong acid compound specifically designed to deal with stubborn deposits like cement deposits cleaning from cargo holds or dry cement stains from most common surfaces. It can safely be used on every metal surface except zinc, aluminum and galvanize. It does not harm to plastics and o-rings.

### ERCLEAN-ALCA

A heavy duty water based alkaline cleaner. It has cleaning applications including removal of greases, waxes, vegetables and animal oils, sludge, soot, carbon deposits, coal residues, dirt and grime. It is appropriate with all cleaning methods. It can be applied by brush, hand spray, high and low pressure washing machines, etc. It is a highly foaming product nevertheless; it can also be used together with foam agent if needed.

### RUST REMOVER

It is used to remove iron ore from any steel surface, brass, copper, stainless steel, wood, ceramic and aluminum surfaces, painted or not.

### ERCLEAN-DEGREASER

A high performance water based alkali cleaner. It efficiently removes heavy grease, sludge, fatty oil, fish oil, animal and vegetable oil. ERCLEAN-DEGREASER is an excellent cleaner for Manganese Ore.

### ERCLEAN-ALCA POWER

A strong water based alkaline cleaner and degreaser. It is used for numerous cleaning applications including cleaning of vegetable oils, animal oils, fatty acids, fish oils, greases, waxes, oil, sludge, soot, carbon deposits, general dirt, grime and inert gas soot. ERCLEAN-ALCA POWER can also be used as a cargo hold cleaner after coal and pet coke cargoes. It has superior cleaning effect on heavy duty cargoes with high foaming performance.

### ER-APC

An ecological water based cargo- hold and tank cleaner. It is a superior high-quality cleaner and degreaser to remove oil, diesel oil or mineral oil from any surface. ER-APC is low-toxic, biodegradable and safe to use for the operating personnel. ER-APC is an excellent cleaner for chrome ore and clay cleaning.

### ERCLEAN-LIME

Strong acid-based cleaner to remove lime stone and slaked lime from cargo holds. It is formulated with strong surfactants, special corrosion inhibitors and acids. It is adequate to neutralize strong alkaline conditions. It is not recommended to use over aluminum, galvanized, zinc and lead surfaces.

### ERCLEAN-I DUST

Concentrated aqueous liquid solution consisting of a blend of synergetic antioxidants and passivators. It is used to remove iron dust from any steel surface area and iron dust stains from brass, copper, stainless steel, wood, ceramic and aluminum surfaces, painted or not. It can be used for cleaning cargo holds from hot briquetted iron (HBI) contamination, after unloading the cargo, with great success.



# CARGO HOLD COATING & CLEANING CHART

CARGO	SUGGESTED PRODUCT	DOSAGE RATE
<b>CLEANING</b>		
BAUXITE	BAUXITE REMOVER	10-40% or undiluted
CEMENT	CEMENT REMOVER	50%
CEMENT CLINKERS	CEMENT REMOVER	50%
CHROME ORE	ER-APC	10-50%
CLAY	ER-APC	10-50%
COAL& PETCOKE	ER-APC AQUA	15-50%
COAL& PETCOKE	ER-AC/ ERCLEAN-ALCA POWER	20-50%
COAL& PETCOKE	ERCLEAN-ALCA	25-50%
COPPER POWDER	CEMENT REMOVER	50%
DOLOMITE	ERCLEAN-LIME	10-40 %
GYPSUM	ERCLEAN-LIME	10-50 %
HOT BRIQUETTED IRON	ERCLEAN-I DUST	30-50%
IRON ORE	RUST REMOVER	10-50%
LIME	ERCLEAN-LIME/ CEMENT REMOVER	10-50%
LIMESTONE	ERCLEAN-LIME/ CEMENT REMOVER	10-50%
MANGANESE ORE	ERCLEAN-DEGREASER	10-50%
NICKEL ORE	CEMENT REMOVER& RUST REMOVER MIXTURE	60% + 40%
PETCOKE	ERCLEAN-PCS	50% or undiluted
SULPHUR	ER-APC AQUA	30%
<b>COATING</b>		
COAL	ER-COAT EASY	1 litre ER-COAT EASY will cover 12-15 m <sup>2</sup>
CEMENT	ER-COAT EASY	
PETCOKE	ER-COAT EASY	
SALT	ER-COAT EASY	
SULPHUR	ER-COAT EASY	

# CHEMICAL APPLICATOR SET

## AIR- OPERATED DOUBLE DIAPHRAGM PUMP

Maximum self-priming capacity : 5 m  
Max. Air supply pressure : 7 bar  
Maximum free flow rate : 50 lt/min  
Maximum pump speed : 400 cpm  
Air Pressure operating Rate : 25 to 100 psi  
Air inlet size : 3/8 npt(f)  
Fluid inlet & outlet size : 1/2 npt(f)



## WATER JET GUN

The Water Jet Gun in Tripod operates with high pressure water and compressed air. The use of high pressure water along with air generates a compressed jet of water reaching up-to 30-35 meters.

Air inlet size: 1/2 npt(f)  
Fluid inlet & outle size 2 npt(f)



## TELESCOPIC POLE

A – 9 Meters Fiber Telescopic pole (BASIC)  
5 kg, easy to use  
Includes Nozzle  
B – 6 or 9 Meters Aluminium Telescopic pole (OPTIONAL)  
1,5 kg – 2 kg  
Includes Nozzle  
C – 12-16 Meters Carbon Fiber Telescopic pole (OPTIONAL)  
Includes Nozzle



## HOSES

Suction hose : 10 meter  
Air hose : 25 meter  
Discharge hose : 50 meter





## Natural life is a chemical product

We hope to share our experience of over 40 years with you.

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