

The top half of the page features a dark teal background with white line-art icons of an oil pumpjack, three wind turbines, and a factory with a smokestack. The background is divided into several overlapping geometric shapes in shades of teal and blue.

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## REFERENCE LISTS OF CHEMICAL PRODUCTS

# OIL INDUSTRY

The Oil & Gas Industry is divided into three main sectors, Upstream, Midstream and Downstream:

- The upstream is the process exploration and production of Crude oil, through drilling rigs.
- The midstream is the process of transporting the Crude oil to the different destinations, export or refining, through Pipes and loading arms.
- The downstream is the process of refining the crude oil into usable consumer products.

Below is a list of the chemicals, Armada can provide the following chemicals related to each process:



**Upstream**



**Midstream**



**Downstream**

✓ **UPSTREAM CHEMICALS**

Products		
Antifoam	Zinc Oxide	BUTYL ACETATE
Liquid Corrosion Inhibitor	Tween 80	ETHYL ACETATE
Scale Inhibitor	Tween 20	METHANOL
Biocide	MPG	HCL
Demulsifier	DEG	H2SO4
Flow Improvers	TEG	BENTONITE
Corrosion Inhibitor	NaOH	BARITE
Oxygen Scavenger	Natresol	BRLLIANTE
Waste / Oil Water Chemicals	Acetone	2- Ethylhexanol
Gas Corrosion Inhibitor	Acnipio (preservative)	Isobutanol
H2S Scavenger	Bermacol	Methanol
Commodities	Citric Acid Monohydrate	n-Butanol
Salt Dispersant	CMC	IPA
Foamers	IPA (Iso Propyl Ethanol)	Ethanol 99.9%
A-MDEA	IPM (Iso Propyl Mistreat)	Polyvinyl Alcohol
Biodispersant	KOH (Pottasium Hydroxide)	Diacetone Alcohol
pH Control	XYLENE	Aromatics
Anti-Naphtenate	TOLUENE	Benzene
Faster Dropper	METHYL ACETATE	Xylene
Toluene	Caustic Potash	Mixed Butene
Solvent Naphtha	Sodium Carbonate	Dipotassium
Monoethylene Glycol	Styrene	Phosphate
Diethylene Glycol	Butyl Acrylate	Potassium Tripolyphosphate

Triethylene Glycol	Methyl Methacrylate	Sodium Tripolyphosphate
Polyethylene Glycols	Methyl Acrylate	Trisodium Phosphate
Polyester Polyols	2-Ethylhexyl Acrylate	Acetic Acid
Mono Propylene Glycol	Mono Chloro Acetic Acid	Citric Acid
Butyl Glycol Ether	Epichlorohydrine	Formic Acid
Ethyl Glycol Ether	Methylene Dichloride	Hydrochloric Acid
Acetone	Ethylene Dichloride	Octoic Acid
Cyclohexanone	Perchloroethylene	Isobutyric Acid
Methyl Ethyl Ketone	Trichloroethylene	Adipic Acid
Methyl Isobutyl Ketone	Phthalic Anhydride	Isophthalic Acid
Diocetyl Phthalate	Bisphenol A	Phenol
Dibutyl Phthalate	Maleic Anhydride	Nonylphenol
Di-isobutyl Phthalate	Pentaerythritol	Catalysts
Di-isononyl Phthalate	Ethylene	Fine Chemicals
Soda Ash	Propylene	Solvents
Caustic Soda	Butadiene	Resins/Plastics
Fertilizers	Petrochemicals	Hydroxyethyl Cellulose
Acetone	Natural Gas	Thinner
Phenol	Biofuels	Sabutol
Refining	Methyl Cellulose	Capstone
Bentomold	Mineral Sands	Hyper

## ✓ MIDSTREAM AND DOWNSTREAM CHEMICALS

Products		
MPG	Monoethylene Glycol	Antifoam
MEG	Diethylene Glycol	Erosion Inhibitor
DEG	Triethylene Glycol	Scale Inhibitor
TEG	Polyethylene Glycols	Biocide
Mono Ethanol Amine	Polyester Polyols	Demulsifier
Mono Ethylene Glycol	Mono Propylene Glycol	Moth Balling
NaOH	Butyl Glycol Ether	Corrosion Inhibitor
Natresol	Ethyl Glycol Ether	Scale Converter
Acetone	Acetone	O2 Scavenger
Acnipo (preservative)	Cyclohexanone	Deoiler
CMC	Methyl Ethyl Ketone	H2S Scavenger
IPA (Iso Propyl Ethanol)	Methyl Isobutyl Ketone	Pour Point Depressant
IPM (Iso Propyl Mistreat)	Diocetyl Phthalate	Paraffin Dispersant & Solvent
KOH (Pottasium Hydroxide)	Dibutyl Phthalate	Asphaltene Dispersant & Solvent
2- Ethylhexanol	Di-isobuttyl Phthalate	Naphtenates Inhibitor & Solvent
Isobutanol	Di-isononyl Phthalate	Biodispersant
Methanol	Caustic Soda	Rheological Modifier
Methanol	Soda Ash	PhoenixTech Foam Assisted Lift
Ethanol 99.9%	Caustic Potash	Thermodynamic Hydrate Inhibitor
Polyvinyl Alcohol	Sodium Carbonate	Low Dosage Hydrates Inhibitor
Diacetone Alcohol	Styrene	ATLANTIS Protocol for DeepWater
Benzene	Butyl Acrylate	Sweetening Unit Products
Xylene	Methyl Methacrylate	Oil Dispersant
Toluene	Methyl Acrylate	Decontamination Technology
Solvent Naphtha	2-Ethylhexyl Acrylate	Crude Oil Tracer

Monoethanolamine	Maleic Anhydride	Methyl Ester of Fatty Acids
Diethanolamine	Pentaerythritol	Butyl Carbitol Acetate
Triethanolamine	Ethylene	Mono Chloro Acetic Acid
Diethylamine	Propylene	Epichlorohydrine
Triethylamine	Butadiene	Methylene Dichloride
Ethyl Acetate	Mixed Butene	Ethylene Dichloride
Methyl Acetate	Dipotassium Phosphate	Perchloroethylene
n-Butyl Acetate	Potassium Tripolyphosphate	Trichloroethylene
Butyl Cellosolve Acetate	Sodium Tripolyphosphate	Phthalic Anhydride
n-Propyl Acetate	Trisodium Phosphate	Bisphenol A

**For more information regarding the above chemicals, including Technical Data sheets, Materials Safety Data Sheets and other information, please contact us.**

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## WATER TREATMENT CHEMICALS

Industrial Water treatment is provided to treat the following main problems scaling, corrosion, microbiological formation and the disposal of waste water.

### Our Chemicals are used in the following Applications:

- Boiler Treatment
- Cooling Circuits
- Distillation Plants
- Reverse Osmosis and ultrafiltration Plants
- Waste Water treatment plants

Products		
Corrosion Inhibitor	Scale Inhibitors	Oxygen Scavenger
Biocide	Alkalinity Builders	Amines
Chlorine Dioxide	Sodium Hypochlorite	Algaecide
Salt	AntiFoam	Coagulants
Resin Cleaners	Oxidants	Flocculants
Deformers	RO Cleaners	Disinfectants
RO Unit	Boilers	Cooling Towers

### We also provide the following Services:

- ✓ Test Apparatus, including PH Meters, TDS Meters and Spectrometers
- ✓ Monitoring Systems
- ✓ Automatic Dosing and injection systems
- ✓ Service by Local Representative
- ✓ On site test and reporting
- ✓ Laboratory Analysis (Including Legionella Testing)
- ✓ Troubleshooting Consultations

# OTHER CHEMICALS

## Fuel Additives

Lubricity Improvers	Antioxidants for Gasoline
Conductivity Improvers	Stabilizers for Gasoil
Performance packages	Antioxidants for Jet Fuel
Biocides	Antioxidants for C4
H2S scavengers	Antioxidants for Lube Oil
Dyes and Markers	Middle Distillate Flow Improvers
Antioxidants for FAME	Pour Point Depressants
Flow Improvers for FAME	

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## REFERENCE LISTS OF MECHANICAL PRODUCTS

**Your experts in rotating machinery.**

<b>Air Compressors</b>	we can offers a full range of compressed air treatment systems, products and services as well as air compressor parts and accessories that you need to be successful in all of your compressor-related business needs. We offer OEM manufacturer standards, using OEM Suppliers.
<b>Pumps</b>	For oil and Gas, hydrocarbon and chemical processing, power generation and water resources industries as well as the general process and industrial marketplace.
<b>Firefighting:</b>	We are able to offer a variety of materials and services, ranging from mobile equipment to complex fixed systems, from engineering and design to on-site erection. Vehicles and trucks, monitors and fire and gas systems.
<b>Pipes, valves and fittings</b>	PVF, we can provide a solution for the supply and erection of all types of pipes, valves and fitting products to the oil, energy and industrial markets.
<b>Oil Spill equipment</b>	We can provide an extensive range of oil skimmers, including discs, mop, belt brush and drum systems. Our skimmers can be used in API oil water separator.
<b>Motors</b>	Suitable for a variety of applications, Low, medium and high voltage motors.
<b>Gearboxes</b>	We can supply gearboxes used in Industrial Power Generation applications including either gas turbine or steam turbine, designed based on API or SGMA Standards.



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## REFERENCE LISTS OF ELECTRICAL PRODUCTS

**Your Electrical material provider.**

Whether it is a new machine, a spare part request or a required engineering service, we at ARMADA can fulfill. Some of the items that we can assist in are, Generators, Transformers, HV and LV Cables, Circuit breakers and switch gears.

**With registered offices in different countries and with experienced desk engineers dedicated to outsource all your needs and requirements we supply the best quality materials with the fastest, precise delivery period.**

