



SETH NANDRAM DAULATRAM BIYANI INDIA PVT. LTD.

*“Creating Chemistry between India and the World”*

# Water Treatment Chemicals



Desalination is a process that removes salts and minerals from saline water, particularly seawater, to produce water suitable for human consumption or irrigation. It is cost-effective and is used on seagoing ships and submarines.

## ● what is Desalination?

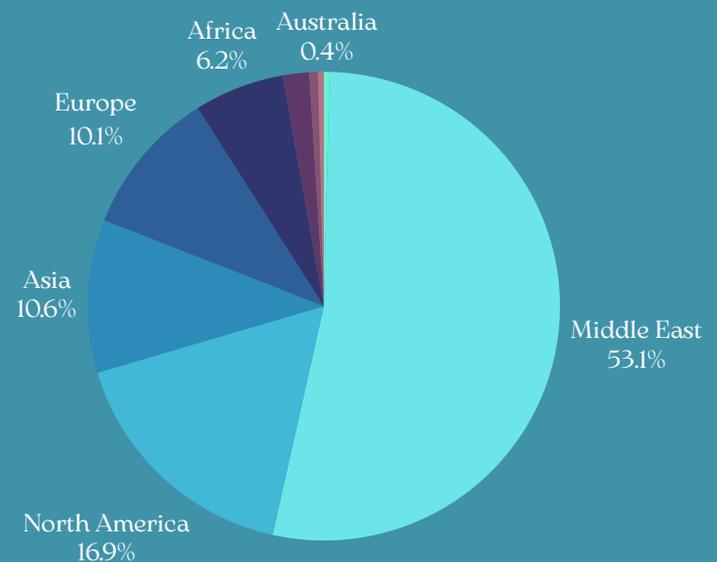
Desalination is one of the few rainfall-independent water resources. Despite its high energy consumption, it is a cost-effective alternative to surface water, groundwater, water recycling, and conservation.

In 2018, 18,426 desalination plants were in operation in 150 countries, producing 87 million cubic meters of clean water daily.



# Where Desalination is needed ?

The most important users of desalinated water are in the Middle East, (mainly Saudi Arabia, Kuwait, the United Arab Emirates, Qatar and Bahrain), which uses about 53.1% of worldwide capacity; and in North America (mainly Libya and Algeria), which uses about 6% of worldwide capacity.



# Why desalination is needed?



Desalination provides freshwater for agricultural irrigation and is often used for processes that require very high water quality like that used in boilers to avoid scale buildup.

## How does Desalination work?

Seawater desalination removes salt and impurities from seawater using reverse osmosis, pumped from the Ocean, and undergoes pre-treatment filtration to produce drinking water.

Filtered seawater undergoes membrane filtration to remove salt, bacteria, viruses, and impurities, with about half entering the plant as fresh drinking water.





## Pre-treatment chemicals

- Coagulants and flocculants,
- Deposit control agents (antiscalants, dispersants),
- Biocides and reducing chemicals

## Post-treatment chemicals

- Chlorine,
- pH adjusters
- Anti-corrosion additive
- Compounds for remineralization.



# Pre-treatment chemicals

## Coagulants and flocculants

- Ferric / Non-Ferric Aluminium Sulphate
- Ferric Chloride
- Polyaluminium Chloride

## Anti-corrosion additive

- Polyacrylic Acid
- Phosphoric Acid
- HEDP 100
- HEDP 4Na

## Biocides & reducing chemicals

- Sulfuric Acid
- Calcium Hypochlorite
- Sodium Meta Bisulphite



# Post-treatment chemicals

## pH adjusters

- Caustic Soda Flakes
- Caustic Soda Lye
- Hydrochloric Acid
- Sodium Bicarbonate

## Oxygen Scavengers

- Ammonium Bisulphite
- Sodium Sulfit

## Disinfectants

- Calcium Hypochlorite
- Hydrogen Peroxide

## Liquid Chlorine

- Chlorine kills pathogens such as bacteria and viruses by breaking the chemical bonds in their molecules.

## Compounds for remineralization

- Calcium Chloride
- Sodium Bicarbonate



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