

Market Report

Global Water Treatment Chemicals Market

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Abstract

The global demand on chemicals for water and wastewater treatment was estimated at US\$32.8 billion in 2019, roughly 4.0% up from the previous year. The market sees steady growth in the coming years, driven by growing global demand for clean water, increasing environmental concerns, and ever stricter regulations on wastewater treatment.

Significant gains can be found in the largest emerging markets, e.g. China and India. Asia-Pacific is expected to dominate the global water treatment chemicals market, due to large population, fast growing manufacturing needs, and concerns about environmental issues. Africa with its fast-growing population also presents great opportunities, particularly in the municipal / drinking water. The developed regions are expected to see the market growth slightly above their overalls GDP growth.

Acmite Market Intelligence has finished a most comprehensive report on global water treatment chemicals market. It is ready for order.

The study examines the current market structure, products and application areas, provides extensive market data of 2019, and market forecast through 2025 to 2029. It also outlines industrial dynamics, investments and competition landscape, and anticipates future trends based on a series of influence factors.

- over 260 pages analysing the market
- over 90 data tables
- a list of 208 water treatment chemicals manufacturers

With a multi-dimensional and in-depth view of global water treatment chemicals market, this report is ideal help for you with decisions about project feasibility analysis, business expansion, international market penetration, and more.

Table of Contents

1. Market definition and segmentation.....	1
1.1 Definition.....	1
1.1.1 Water treatment.....	1
1.1.2 What are water treatment chemicals?	3
1.3 Types of water treatment chemicals and their functions.....	5
2. Macro-environment.....	8
2.1 World economic environment.....	8
2.2 The chemical industry.....	11
2.2.1 World Chemical Market Share.....	11
2.2.2 Capital spending in Chemical industry by country, 2008 vs.2018.....	15
2.2.3 Spending on research & innovation in chemical industry by country	17
3. Water treatment chemicals market overview.....	19
3.1 Market data.....	19
3.2 Market trends and perspectives.....	31
3.3 Industry dynamics.....	38
3.4 Investment, M&A.....	54
3.5 Competition analysis and leading players.....	67
4. Market by Product	119
4.1 Coagulants and flocculants.....	119
4.1.1 Product and uses.....	119
4.1.2 Coagulants & flocculants market size and forecast.....	129
4.1.2.1 Coagulants & flocculants market by type.....	129
4.1.2.2 Coagulant market by type.....	130
4.1.2.3 Flocculants market by type.....	131
4.1.2.4 Coagulants & flocculants market by application.....	132
4.1.2.5 Coagulants & flocculants market in industry by end user.....	133
4.1.2.5 Coagulants & flocculants market by region.....	134
4.2 Corrosion inhibitors.....	137
4.2.1 Products and uses.....	137
4.2.2 Corrosion inhibitor market and forecast.....	139
4.2.2.1 Corrosion inhibitor market by type.....	139

4.2.2.2 Corrosion inhibitor market by application.....	140
4.2.2.3 Corrosion inhibitor market in industrial water by end user.....	141
4.2.2.4 Corrosion inhibitor market by region.....	142
4.3 Disinfectants.....	145
4.3.1 Products and uses.....	145
4.3.2 Disinfectant market size and forecast.....	147
4.3.2.1 Disinfectant market by type.....	149
4.3.2.2 Disinfectant market by application.....	150
4.3.2.3 Disinfectant market in industrial water by end user.....	151
4.3.2.4 Disinfectant market by region in US\$.....	152
4.4 Scale inhibitors.....	153
4.4.1 Products and uses.....	153
4.4.2 Scale inhibitors market size and forecast.....	156
4.4.2.1 Scale inhibitor market by type.....	158
4.4.2.2 Scale inhibitors demand by region.....	159
4.4.2.3 Scale inhibitor market in industrial water by end user.....	160
4.4.2.4 Scale inhibitor market by region.....	161
4.5 pH adjusters and softeners.....	162
4.5.1 Products and uses.....	162
4.5.2 pH adjusters and softeners size and forecast.....	168
4.5.2.1 pH adjusters and softeners market by type.....	170
4.5.2.2 pH adjuster & softener market by application.....	173
4.5.2.3 pH adjuster & softener market in industrial water by end user.....	174
4.5.2.4 pH adjuster & softener market by region in US	176
4.6 Anti-foaming agent.....	177
4.6.1 Products and uses.....	177
4.6.2 Antifoaming agent market size and forecast.....	180
4.6.2.1 Antifoaming agent market by type.....	182
Antifoaming agent market by material in US.....	182
4.6.2.2 Antifoaming agent market by application.....	183
4.6.2.4 Antifoaming agent market by region.....	185
4.7 Others.....	186
5. Market by application.....	188
5.1 Overview of water treatment chemicals market.....	191
5.2 Industrial water treatment.....	191

5.2.1 Industrial water treatment market segmentation.....	191
5.2.2 Industrial water treatment chemical market size and forecast.....	195
5.2.2.1 Industrial water treatment chemical market by type.....	195
5.2.2.2 Industrial water treatment chemicals market by end user.....	196
5.2.2.3 Industrial water treatment chemicals market by segment.....	197
5.2.2.4 Industrial water treatment chemicals market by region.....	198
5.2.3 Cooling Water Treatment.....	199
5.2.4 Boiler water treatment chemicals.....	202
5.3 Municipal / drinking water.....	206
5.3.1 Municipal / drinking water market segmentation.....	206
5.3.2 Municipal /drinking water treatment chemicals market size and forecast.....	208
5.3.2.1 Municipal /drinking water treatment chemicals market by type.....	208
5.3.2.2 Municipal /drinking water treatment chemicals market by end user.....	209
5.3.2.3 Municipal water treatment chemicals market by region.....	210
5.4 Wastewater treatment.....	211
5.4.1 Wastewater treatment chemicals market segmentation.....	211
5.4.2 Wastewater treatment chemicals market size and forecast.....	215
5.4.2.1 Wastewater treatment chemicals market by type.....	215
5.4.2.2 Wastewater treatment chemicals market by end user.....	216
5.4.2.3 Wastewater treatment chemicals market by region.....	217
5.5 Others.....	218
5.5.1 Market segmentation.....	218
5.5.2 Market size and forecast.....	220
5.5.2.1 Other water treatment chemicals market by type.....	220
5.5.2.2 Other water treatment chemicals market by end user.....	221
5.5.2.3 Other water treatment chemicals market by region.....	222
6 Market by region.....	223
6.1 Europe.....	223
6.1.1 Water treatment chemicals market in Europe by type.....	223
6.1.2 Water treatment chemicals market in Europe by application	224
6.1.3 Water treatment chemicals market in Europe by country.....	225
6.1.3.1 Water treatment chemicals market in Germany by type.....	226
6.1.3.2 Water treatment chemicals market in Germany by application.....	227
6.1.3.3 Water treatment chemicals market in UK by type.....	228
6.1.3.4 Water treatment chemicals market in UK by application.....	229

6.1.3.5 Water treatment chemicals market in France by type.....	230
6.1.3.6 Water treatment chemicals market in France by application.....	231
6.1.3.7 Water treatment chemicals market in Italy by type.....	232
6.1.3.8 Water treatment chemicals market in Italy by application.....	233
6.1.3.9 Water treatment chemicals market in Russia by type.....	234
6.1.3.10 Water treatment chemicals market in Russia by application.....	235
6.2 North America.....	236
6.2.1 Water treatment chemicals market in N. America by type.....	236
6.2.2 Water treatment chemicals market in N. America by application.....	237
6.2.3 Water treatment chemicals market in N. America by country.....	238
6.2.3.1 Water treatment chemicals market in the US by type.....	239
6.2.3.2 Water treatment chemicals market in the US by application.....	240
6.2.3.3 Water treatment chemicals market in Mexico by type.....	241
6.2.3.4 Water treatment chemicals market in Mexico by application.....	242
6.2.3.5 Water treatment chemicals market in Canada by type.....	243
6.2.3.6 Water treatment chemicals market in Canada by application.....	244
6.3 South America.....	245
6.3.1 Water treatment chemicals market in S. America by type.....	245
6.3.2 Water treatment chemicals market in S. America by application.....	246
6.3.3 Water treatment chemicals market in S. America by country.....	247
6.3.1.1 Water treatment chemicals market in Brazil by type.....	248
6.3.1.2 Water treatment chemicals market in S. America by application.....	249
6.4 Asia Pacific.....	250
6.4.1 Water treatment chemicals market in Asia Pacific by type.....	250
6.4.2 Water treatment chemicals market in Asia Pacific by application.....	251
6.4.3 Water treatment chemicals market in Asia Pacific by country.....	252
6.4.3.1 Water treatment chemicals market in China by type.....	253
6.4.3.2 Water treatment chemicals market in China by application.....	254
6.4.3.3 Water treatment chemicals market in Japan by type.....	255
6.4.3.4 Water treatment chemicals market in Japan by application.....	256
6.4.3.5 Water treatment chemicals market in India by type.....	257
6.4.3.6 Water treatment chemicals market in India by application.....	258
6.4.3.7 Water treatment chemicals market in South Korea by type.....	259
6.4.3.8 Water treatment chemicals market in South Korea by application.....	260
6.5 Africa.....	261

6.5.1 Water treatment chemicals market in Africa by type.....	261
6.5.2 Water treatment chemicals market in Africa by application.....	262
6.5.3 Water treatment chemicals market in Africa by country.....	263
7 Company list (208).....	264

4.2 Corrosion inhibitors

4.2.1 Products and uses

Corrosion inhibitors

Corrosion inhibitors are chemical products which, when added to water or to any other process fluid, slow down the rate of corrosion. They are normally classified as: anodic, cathodic, mixed inhibitors and volatile corrosion inhibitors depending on their mode of action. The effectiveness of most corrosion inhibitors is significantly affected by the water's chemical properties and by physical conditions such as temperature and flow velocity. The use of corrosion inhibitors must be compatible with all other water treatments, circuit characteristics and operating parameters

Types of corrosion inhibitors include:

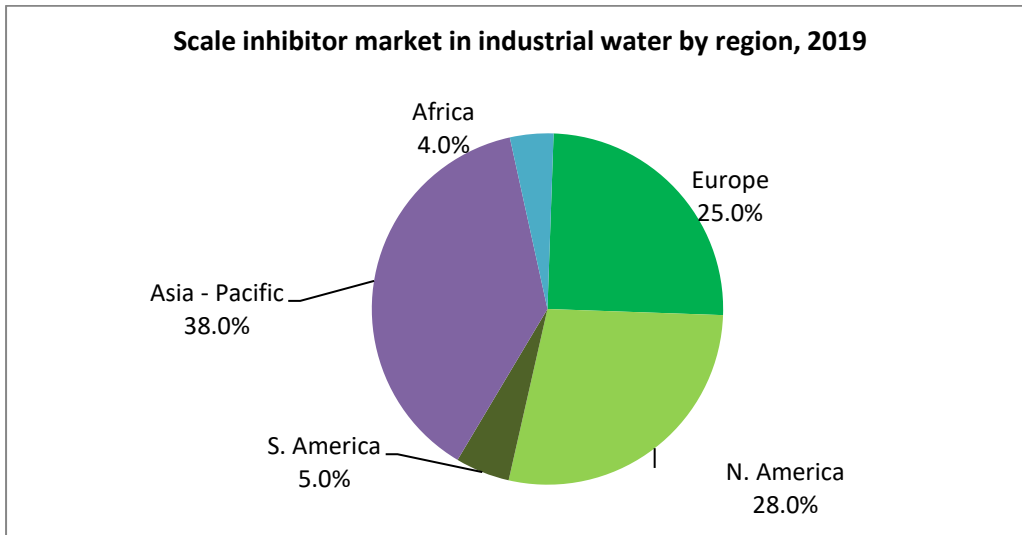
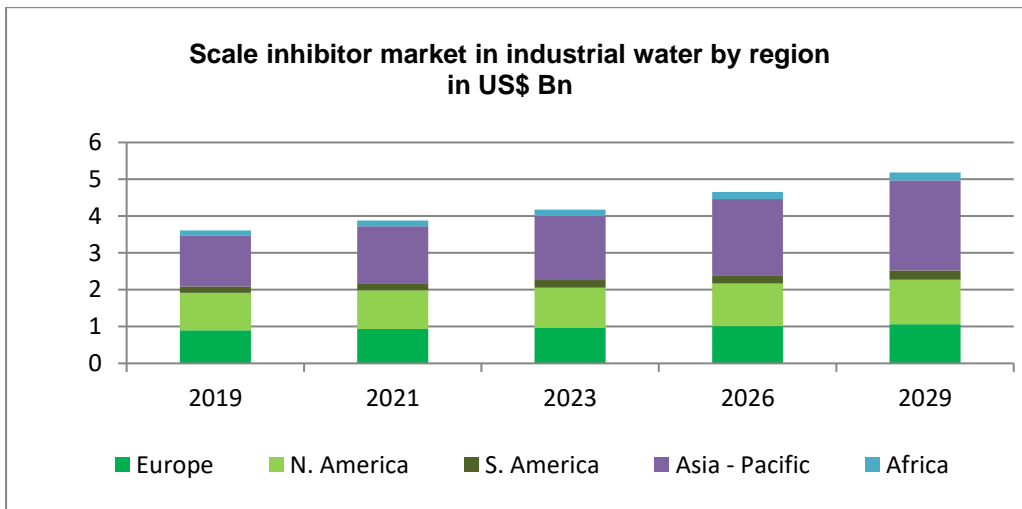
- Anodic inhibitors. Anodic inhibitors react with oxygen to form a thin film on the surface of the metal. They reduce the corrosion potential of the material by oxidizing a surface layer that is less reactive to corrosive elements.
- Cathodic inhibitors. Cathodic inhibitors slow the cathodic reaction itself or limit the diffusion of reductive elements such as hydrogen or oxygen to the metal surface. Examples are cathodic poisons such as arsenic and selenium ions which slow the reaction or oxygen scavengers such as sulfite ions which limit the diffusion of oxygen.
- Mixed inhibitors. Mixed inhibitors are compounds that form a film or precipitate to reduce both the cathodic and anodic reactions. Sodium silicate and phosphates used in domestic water softener salts to prevent rust water are examples.

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4.4.2.4 Scale inhibitor market by region

Scale inhibitor market by region in US\$ million

	2019	2021	2023	2026	2029	CAGR
Europe	0.90	0.93	0.97	1.02	1.06	1.7%
N. America	1.01	1.05	1.09	1.15	1.21	1.9%
S. America	0.18	0.19	0.21	0.23	0.25	3.5%
Asia - Pacific	1.37	1.54	1.74	2.06	2.44	6.0%
Africa	0.14	0.16	0.17	0.19	0.22	4.2%
Total	3.61	3.88	4.17	4.65	5.19	3.7%



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