

# Coagulants & Flocculants – A Global Market Overview

https://marketpublishers.com/r/C1AF840E5ABEN.html

Date: January 2019

Pages: 428

Price: US\$ 4,950.00 (Single User License)

ID: C1AF840E5ABEN

# **Abstracts**

**DESCRIPTION:** 

Report Synopsis

The global flocculants and coagulants market has been witnessing a marked transition from traditionally used chemical flocculants, such as alum and ferric chloride, towards natural products derived from plants. As a consequence of this, demand for natural coagulants and flocculants has spiked over the recent years and is likely to maintain this trend over the coming period. Asia-Pacific is the largest global market for coagulants and flocculants and is also anticipated to register the fastest growth during the reporting period.

In terms of market share, globally, Inorganic Coagulants and Organic Coagulants account for approximately equal shares under Coagulants while Synthetic Flocculants type leads the Flocculants global market with 42% in 2018 closely followed by Mineral Flocculants with 30% in the same year.

Research Findings & Coverage

Coagulants & Flocculants global market is analyzed in this report with respect to product type/sub-types and major applications

The study exclusively analyzes the market for Coagulants & Flocculants applications in all major regions/countries for the analysis period

The market size of Coagulants & Flocculants is estimated for the product types and applications across all major countries



Plant-Based Natural Coagulants Offer Safe and Sustainable Alternative for Water Clarification

Chitosan Effective as Coagulant and Flocculant for Textile Effluents

Biocoagulants Emerging as Alternatives for Treating Potable Water

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled - 80

The industry guide includes the contact details for 159 companies

#### **Product Outline**

The following product types/sub-types of Coagulants & Flocculants are analyzed in this report:

Coagulants

Inorganic Coagulants

**Organic Coagulants** 

Flocculants

Mineral Flocculants

Natural Flocculants

Synthetic Flocculants

The report analyzes the following major applications of following of Coagulants & Flocculants:

Mining



Oil & Gas	
Pulp & Paper	
Textiles	
Water & Wastewater Treatment	
Other Applications	

# Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Coagulants & Flocculants market for the period 2015-2024 in terms of US\$ and the compound annual growth rates (CAGRs) projected from 2018 through 2024

# Geographic Coverage

North America (United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Rest of World



# **Contents**

#### PART A: GLOBAL MARKET PERSPECTIVE

#### 1. INTRODUCTION

- 1.1 Product Outline
  - 1.1.1 A General Overview of Coagulation and Flocculation
  - 1.1.2 Coagulants and Coagulation
    - 1.1.2.1 Particles in Water
    - 1.1.2.2 Stability of Colloids
  - 1.1.2.3 Chemistry of Coagulation
  - 1.1.2.4 Chemistry of Inorganic Coagulants and Coagulation Mechanisms
  - 1.1.2.5 Chemistry of Organic Coagulants and Coagulation Mechanisms
    - 1.1.2.5.1 Polymer Types
  - 1.1.2.6 Mechanism of Coagulation
  - 1.1.2.7 Mixing for Coagulation
    - 1.1.2.7.1 Mixing Intensity of Coagulation for Inorganic Salts
      - 1.1.2.7.1.1 Mixing Intensity of Coagulation for Sweep Coagulation
      - 1.1.2.7.1.2 Mixing Intensity of Coagulation for Charge Neutralization
    - 1.1.2.7.2 Mixing Intensity of Coagulation for Polymeric Organic Coagulants
  - 1.1.2.8 Factors Affecting Coagulation
  - 1.1.3 Flocculants and Flocculation
  - 1.1.3.1 Stability of Colloidal Suspensions
  - 1.1.3.2 Electrical Double Layer
    - 1.1.3.2.1 Zeta Potential
    - 1.1.3.2.2 Zeta Potential and Suspension Stability
  - 1.1.3.3 The Mechanism of Flocculation
    - 1.1.3.3.1 Charge Neutralization Mechanism
  - 1.1.3.3.2 Bridging Mechanism
  - 1.1.3.3.3 Electrostatic Patch Mechanism
  - 1.1.3.4 Flocculating Materials
    - 1.1.3.4.1 Mineral/Inorganic Flocculants
      - 1.1.3.4.1.1 Aluminum Compounds
      - 1.1.3.4.1.2 Iron Compounds
    - 1.1.3.4.2 Polymeric Flocculants
      - 1.1.3.4.2.1 Cationic Polymers
        - 1.1.3.4.2.1.1 Polyacrylamide-Based Cationics
        - 1.1.3.4.2.1.2 Polyamines, Polyimines and Polyvinylpyridines



**Polyamines** 

Polyamidoamines

Poly (Ethylene Imine) (PEI)

Poly (2-Vinyl Pyridine) and Poly (4-Vinyl Pyridine)

1.1.3.4.2.2 Anionic Polymers

1.1.3.4.2.2.1 Polymers Containing Carboxyl Groups

Poly (Acrylic Acid) and its Salts

1.1.3.4.2.2.2 Polymers Containing Sulfonic Acid Groups

Poly (Vinyl Sulfonic Acid) (PVSA)

Poly (Styrenic Sulfonic Acid) (PSSA)

1.1.3.4.2.3 Nonionic Polymers

1.1.3.4.2.3.1 Polyacrylamide

1.1.3.4.2.3.2 Poly (Ethylene Oxide) (PEO)

1.1.3.4.3 Natural Flocculants

1.1.3.4.3.1 Starch

1.1.3.4.3.2 Guar Gum

1.1.3.4.3.3 Chitin Derivatives and Chitosan

1.1.3.4.3.4 Sodium Carboxymethyl Cellulose

1.1.3.4.4 Graft Copolymers

1.1.3.4.4.1 Anionic/Nonionic Graft Copolymers

1.1.3.4.4.2 Cationic Graft Copolymers

1.1.3.5 A Comparison Between Polymeric and Inorganic/Mineral Flocculants

1.1.3.6 A Comparison Between Natural and Synthetic Flocculants

1.1.3.7 Flocculation Test Methods

1.1.3.7.1 The Jar Test

1.1.3.8 Factors Influencing Flocculation

1.1.3.8.1 Polymer Molecular Weight and Charge Density

1.1.3.8.2 Conformation of Polyelectrolyte in Solution

1.1.3.8.3 Dosing and Mixing Conditions

1.1.3.8.4 Solution Properties

1.1.3.8.4.1 Ionic Strength

1.1.3.8.4.2 Effects of pH

1.1.3.8.4.3 Effect of Particle Size

# 2. COAGULANTS AND FLOCCULANTS APPLICATION ANALYSIS – A MARKET SNAPSHOT

#### 2.1 Mining

2.1.1 Anionic Flocculants



- 2.1.2 Nonionic Flocculants
- 2.1.3 Cationic Flocculants
- 2.2 Oil & Gas
- 2.3 Pulp & Paper
- 2.4 Textiles
- 2.5 Water & Wastewater Treatment
  - 2.5.1 Water Treatment
  - 2.5.2 Wastewater Treatment
  - 2.5.3 Sludge Conditioning
  - 2.5.4 Industrial Water and Wastewater Treatment
  - 2.5.5 Surface and Groundwater Treatment
- 2.6 Other Applications

#### 3. KEY MARKET TRENDS

- 3.1 Plant-Based Natural Coagulants Offer Safe and Sustainable Alternative for Water Clarification
- 3.2 Chitosan Effective as Coagulant and Flocculant for Textile Effluents
- 3.3 Flocculation Offers Potential to Harvest Microalgae for Bulk Biomass Production Chemical Flocculation

Autoflocculation

**Physical Flocculation** 

Bioflocculation

**Genetic Modification** 

3.4 Biocoagulants Emerging as Alternatives for Treating Potable Water

#### 4. KEY GLOBAL PLAYERS

Aditya Birla Chemicals Business (India)

AK-KIM (Turkey)

Aries Chemical, Inc. (The United States)

BASF SE (Germany)

Buckman Laboratories Lnternational, Inc. (The United States)

Chemifloc Limited (Ireland)

Chinafloc Ltd. (Shandong Shuiheng Chemical Co., Ltd.) (China)

Danaher Corporation (The United States)

Dew Speciality Chemicals (P) Ltd. (India)

Ecolab, Inc. (The United States)

Evonik Industries AG (Germany)



Feralco AB (Sweden)

Feralco Nordic AB (Sweden)

GEO Specialty Chemicals, Inc. (The United States)

Gulbrandsen Chemicals (United States)

Hengyang Jianheng Industry Development Co., Ltd. (China)

Huntsman Corporation (The United States)

Ixom Operations Pty., Ltd. (Australia)

Jayem Engineers (India)

Kemira OYJ (Finland)

Kurita Water Industries, Ltd. (Japan)

Lonza Group Ltd (Switzerland)

Nouryon (The Netherlands)

Rising Group (China)

Shandong Hairong Chemical Technology Co., Ltd. (China)

Shandong Polymer Bio-Chemicals Co., Ltd. (China)

Shandong Sanfeng Group Co., Ltd. (China)

Shenzhen Changlong Technology Co., Ltd. (China)

SNF S.A.S. (France)

Solenis, LLC. (The United States)

Solvay SA (Belgium)

Cytec Industries, Inc. (The United States)

Suez SA (France)

Taki Chemical Co., Ltd. (Japan)

Tessenderlo Group (Belgium)

Tramfloc, Inc. (The United States)

USALCO, LLC. (The United States)

#### 5. KEY BUSINESS TRENDS

AkzoNobel Specialty Chemicals Renamed Nouryon

BAUMINAS Qu?mica Unveils New Generation of Coagulants

Kurita Transfers Alumina Business of Kurita Europe GmbH

Braia srl Acquired by Feralco

Solenis Inaugurates New Production Facility in China

Solenis and BASF Merge Paper and Water Chemicals Operations

AkzoNobel Specialty Chemicals and INEOS Nitriles Enter into an Agreement

BASF Opens Enzyme-Based Production Plant for Biocatalyzed Acrylamide in Nanjing,

China

Kemira and Shandong Tiancheng Wanfeng Establish a Joint Venture



Solenis Acquires Nopco Colombiana

Solenis Plans Direct Sales Channel in India

New Research and Development Facility Set Up by Kurita in Singapore

Kemira Introduces New Flocculant

Kurita Acquires Hansu Co Ltd

BASF Showcases New Products in Water Treatment Chemistry at WETEX 2016

BASF's New Bio-Acrylamide Facility in Bradford Inaugurated

#### 6. GLOBAL MARKET OVERVIEW

- 6.1 Global Coagulants & Flocculants Market Overview by Type
  - 6.1.1 Global Coagulants Market Overview by Sub-Type
  - 6.1.2 Global Flocculants Market Overview by Sub-Type
  - 6.1.3 Coagulants & Flocculants Type Market Overview by Global Region
    - 6.1.3.1 Coagulants
      - 6.1.3.1.1 Coagulant Sub-Type Market Overview by Global Region
        - 6.1.3.1.1.1 Inorganic Coagulants
        - 6.1.3.1.1.2 Organic Coagulants
    - 6.1.3.2 Flocculants
      - 6.1.3.2.1 Flocculant Sub-Type Market Overview by Global Region
        - 6.1.3.2.1.1 Mineral Flocculants
        - 6.1.3.2.1.2 Natural Flocculants
        - 6.1.3.2.1.3 Synthetic Flocculants
- 6.2 Global Coagulants & Flocculants Market Overview by Application
- 6.2.1 Coagulants & Flocculants Applications Market Overview by Global Region
  - 6.2.1.1 Mining
  - 6.2.1.2 Oil & Gas
  - 6.2.1.3 Pulp & Paper
  - 6.2.1.4 Textiles
  - 6.2.1.5 Water & Wastewater Treatment
  - 6.2.1.6 Other Applications

#### PART B: REGIONAL MARKET PERSPECTIVE

## **REGIONAL MARKET OVERVIEW**

## 7. NORTH AMERICA

7.1 North American Coagulants & Flocculants Market Overview by Geographic Region



7.2 North American Coagulants & Flocculants Market Overview by Type

7.2.1 North American Coagulants Market Overview by Sub-Type

7.2.2 North American Flocculants Market Overview by Sub-Type

7.3 North American Coagulants & Flocculants Market Overview by Application

7.4 Major Market Players

Aqua Ben Corporation (The United States)

Aquamark, Inc. (The United States)

Aquatic Bioscience, LLC. (The United States)

Aries Chemical, Inc. (The United States)

Avista Technologies, Inc. (The United States)

Buckman Laboratories Lnternational, Inc. (The United States)

Chemtrade Logistics (Canada)

Cytec Industries, Inc. (The United States)

Danaher Corporation (The United States)

Chemtreat, Inc. (The United States)

Ecolab, Inc. (The United States)

Filter Tech Systems, Inc. (The United States)

Geo Specialty Chemicals, Inc. (The United States)

Gulbrandsen Chemicals (The United States)

Holland Company, Inc. (The United States)

Hubbard-Hall, Inc. (The United States)

Huntsman Corporation (The United States)

Industrial Specialty Chemicals, Inc. (The United States)

Lonza Water Care (The United States)

Metalline Chemicals Corporation (The United States)

Solenis, LLC. (The United States)

Tramfloc, Inc. (The United States)

USALCO, LLC. (The United States)

WYO-Ben, Inc. (The United States)

Zeroday Enterprises, LLC (The United States)

Zinkan Enterprises, Inc. (United States)

7.5 Country-wise Analysis of North American Coagulants & Flocculants Market

7.5.1 The United States

7.5.1.1 United States Coagulants & Flocculants Market Overview by Type

7.5.1.1.1 United States Coagulants Market Overview by Sub-Type

7.5.1.1.2 United States Flocculants Market Overview by Sub-Type

7.5.1.2 United States Coagulants & Flocculants Market Overview by Application

7.5.2 Canada

7.5.2.1 Canadian Coagulants & Flocculants Market Overview by Type



- 7.5.2.1.1 Canadian Coagulants Market Overview by Sub-Type
- 7.5.2.1.2 Canadian Flocculants Market Overview by Sub-Type
- 7.5.2.2 Canadian Coagulants & Flocculants Market Overview by Application
- 7.5.3 Mexico
  - 7.5.3.1 Mexican Coagulants & Flocculants Market Overview by Type
  - 7.5.3.1.1 Mexican Coagulants Market Overview by Sub-Type
  - 7.5.3.1.2 Mexican Flocculants Market Overview by Sub-Type
  - 7.5.3.2 Mexican Coagulants & Flocculants Market Overview by Application

#### 8. EUROPE

- 8.1 European Coagulants & Flocculants Market Overview by Geographic Region
- 8.2 European Coagulants & Flocculants Market Overview by Type
  - 8.2.1 European Coagulants Market Overview by Sub-Type
  - 8.2.2 European Flocculants Market Overview by Sub-Type
- 8.3 European Coagulants & Flocculants Market Overview by Application
- 8.4 Major Market Players

Atana Limited (The United Kingdom)

BASF SE (Germany)

Chemifloc Limited (Ireland)

Chimica Dr. Fr. D'agostino S.P.A. (Italy)

Clariant International, Ltd. (Switzerland)

Clinty Chemicals Ltd. (The United Kingdom)

Coventya S.A.S (France)

Donau Chemie AG (Switzerland)

Ecolochem Magyar?v?r KFT. (Hungary)

Evonik Industries AG (Germany)

Feralco AB (Sweden)

Feralco Nordic AB (Sweden)

Industrial Chemicals Limited (The United Kingdom)

Kemira OYJ (Finland)

Kronos Ecochem (Germany)

Lonza Group Ltd (Switzerland)

Lubrico - A.Tsakalis Ltd (Greece)

Nouryon (The Netherlands)

Novochem Group (The Netherlands)

Qu?mica Del Cinca Slu (Spain)

SC Kemcristal Srl (Romania)

SNF S.A.S. (France)



Solvay SA (Belgium)

Suez SA (France)

Tessenderlo Group (Belgium)

UAB Ekotakas (Lithuania)

Venator Materials Plc (The United Kingdom)

Zeller+Gmelin GmbH & Co., KG. (Germany)

- 8.5 Country-wise Analysis of European Coagulants & Flocculants Market
  - 8.5.1 France
    - 8.5.1.1 French Coagulants & Flocculants Market Overview by Type
      - 8.5.1.1.1 French Coagulants Market Overview by Sub-Type
      - 8.5.1.1.2 French Flocculants Market Overview by Sub-Type
  - 8.5.1.2 French Coagulants & Flocculants Market Overview by Application
  - 8.5.2 Germany
    - 8.5.2.1 German Coagulants & Flocculants Market Overview by Type
      - 8.5.2.1.1 German Coagulants Market Overview by Sub-Type
      - 8.5.2.1.2 German Flocculants Market Overview by Sub-Type
  - 8.5.2.2 German Coagulants & Flocculants Market Overview by Application 8.5.3 Italy
    - 8.5.3.1 Italian Coagulants & Flocculants Market Overview by Type
      - 8.5.3.1.1 Italian Coagulants Market Overview by Sub-Type
      - 8.5.3.1.2 Italian Flocculants Market Overview by Sub-Type
    - 8.5.3.2 Italian Coagulants & Flocculants Market Overview by Application
  - 8.5.4 Russia
  - 8.5.4.1 Russian Coagulants & Flocculants Market Overview by Type
    - 8.5.4.1.1 Russian Coagulants Market Overview by Sub-Type
    - 8.5.4.1.2 Russian Flocculants Market Overview by Sub-Type
  - 8.5.4.2 Russian Coagulants & Flocculants Market Overview by Application 8.5.5 Spain
    - 8.5.5.1 Spanish Coagulants & Flocculants Market Overview by Type
    - 8.5.5.1.1 Spanish Coagulants Market Overview by Sub-Type
    - 8.5.5.1.2 Spanish Flocculants Market Overview by Sub-Type
  - 8.5.5.2 Spanish Coagulants & Flocculants Market Overview by Application
  - 8.5.6 The United Kingdom
    - 8.5.6.1 United Kingdom Coagulants & Flocculants Market Overview by Type
    - 8.5.6.1.1 United Kingdom Coagulants Market Overview by Sub-Type
    - 8.5.6.1.2 United Kingdom Flocculants Market Overview by Sub-Type
  - 8.5.6.2 United Kingdom Coagulants & Flocculants Market Overview by Application 8.5.7 Rest of Europe
  - 8.5.7.1 Rest of Europe Coagulants & Flocculants Market Overview by Type



- 8.5.7.1.1 Rest of Europe Coagulants Market Overview by Sub-Type
- 8.5.7.1.2 Rest of Europe Flocculants Market Overview by Sub-Type
- 8.5.7.2 Rest of Europe Coagulants & Flocculants Market Overview by Application

#### 9. ASIA-PACIFIC

- 9.1 Asia-Pacific Coagulants & Flocculants Market Overview by Geographic Region
- 9.2 Asia-Pacific Coagulants & Flocculants Market Overview by Type
  - 9.2.1 Asia-Pacific Coagulants Market Overview by Sub-Type
  - 9.2.2 Asia-Pacific Flocculants Market Overview by Sub-Type
- 9.3 Asia-Pacific Coagulants & Flocculants Market Overview by Application
- 9.4 Major Market Players

Aditya Birla Chemicals Business (India)

Anhui Jucheng Fine Chemicals Co., Ltd. (China)

Chemtex Speciality Limited (India)

Chinafloc Ltd. (Shandong Shuiheng Chemical Co., Ltd.) (China)

Dew Speciality Chemicals (P) Ltd. (India)

Hengyang Jianheng Industry Development Co., Ltd. (China)

Ixom Operations Pty., Ltd. (Australia)

Jayem Engineers (India)

Kurita Water Industries, Ltd. (Japan)

Mitsubishi Chemical Corporation (Japan)

MT Aquapolymer, Inc. (Japan)

Raybon Chemicals & Allied Products (India)

Rising Group (China)

Sanyo Chemical Industries, Ltd. (Japan)

Shandong Hairong Chemical Technology Co., Ltd. (China)

Shandong Polymer Bio-Chemicals Co., Ltd. (China)

Shandong Sanfeng Group Co., Ltd. (China)

Shenzhen Changlong Technology Co., Ltd. (China)

TAKI Chemical Co., Ltd. (Japan)

Toagosei Co., Ltd. (Japan)

Yixing Bluwat Chemicals Co., Ltd. (China)

9.5 Country-wise Analysis of Asia-Pacific Coagulants & Flocculants Market

9.5.1 China

- 9.5.1.1 Chinese Coagulants & Flocculants Market Overview by Type
  - 9.5.1.1.1 Chinese Coagulants Market Overview by Sub-Type
- 9.5.1.1.2 Chinese Flocculants Market Overview by Sub-Type
- 9.5.1.2 Chinese Coagulants & Flocculants Market Overview by Application



- 9.5.2 India
  - 9.5.2.1 Indian Coagulants & Flocculants Market Overview by Type
    - 9.5.2.1.1 Indian Coagulants Market Overview by Sub-Type
    - 9.5.2.1.2 Indian Flocculants Market Overview by Sub-Type
- 9.5.2.2 Indian Coagulants & Flocculants Market Overview by Application
- 9.5.3 Japan
  - 9.5.3.1 Japanese Coagulants & Flocculants Market Overview by Type
    - 9.5.3.1.1 Indian Coagulants Market Overview by Sub-Type
    - 9.5.3.1.2 Japanese Flocculants Market Overview by Sub-Type
- 9.5.3.2 Japanese Coagulants & Flocculants Market Overview by Application
- 9.5.4 South Korea
  - 9.5.4.1 South Korean Coagulants & Flocculants Market Overview by Type
    - 9.5.4.1.1 South Korean Coagulants Market Overview by Sub-Type
  - 9.5.4.1.2 South Korean Flocculants Market Overview by Sub-Type
- 9.5.4.2 South Korean Coagulants & Flocculants Market Overview by Application
- 9.5.5 Rest of Asia-Pacific
  - 9.5.5.1 Rest of Asia-Pacific Coagulants & Flocculants Market Overview by Type
    - 9.5.5.1.1 Rest of Asia-Pacific Coagulants Market Overview by Sub-Type
    - 9.5.5.1.2 Rest of Asia-Pacific Flocculants Market Overview by Sub-Type
- 9.5.5.2 Rest of Asia-Pacific Coagulants & Flocculants Market Overview by Application

#### 10. SOUTH AMERICA

- 10.1 South American Coagulants & Flocculants Market Overview by Geographic Region
- 10.2 South American Coagulants & Flocculants Market Overview by Type
- 10.2.1 South American Coagulants Market Overview by Sub-Type
- 10.2.2 South American Flocculants Market Overview by Sub-Type
- 10.3 South American Coagulants & Flocculants Market Overview by Application
- 10.4 Major Market Player

Bauminas Qu?mica Ltda (Brazil)

- 10.5 Country-wise Analysis of South American Coagulants & Flocculants Market10.5.1 Argentina
  - 10.5.1.1 Argentinean Coagulants & Flocculants Market Overview by Type
    - 10.5.1.1.1 Argentinean Coagulants Market Overview by Sub-Type
    - 10.5.1.1.2 Argentinean Flocculants Market Overview by Sub-Type
  - 10.5.1.2 Argentinean Coagulants & Flocculants Market Overview by Application 10.5.2 Brazil
    - 10.5.2.1 Brazilian Coagulants & Flocculants Market Overview by Type



10.5.2.1.1 Brazilian Coagulants Market Overview by Sub-Type

10.5.2.1.2 Brazilian Flocculants Market Overview by Sub-Type

10.5.2.2 Brazilian Coagulants & Flocculants Market Overview by Application

10.5.3 Rest of South America

10.5.3.1 Rest of South America Coagulants & Flocculants Market Overview by Type

10.5.3.1.1 Rest of South America Coagulants Market Overview by Sub-Type

10.5.3.1.2 Rest of South America Flocculants Market Overview by Sub-Type

10.5.3.2 Rest of South America Coagulants & Flocculants Market Overview by Application

#### 11. REST OF WORLD

11.1 Rest of World Coagulants & Flocculants Market Overview by Type

11.1.1 Rest of World Coagulants Market Overview by Sub-Type

11.1.2 Rest of World Flocculants Market Overview by Sub-Type

11.2 Rest of World Coagulants & Flocculants Market Overview by Application

11.3 Major Market Players

Akferal Su Kimyasallari Sanayi Ve Ticaret A.S. (Turkey)

AK-Kim (Turkey)

Axis House (Pty), Ltd. (South Africa)

SNF Floerger Kimya San Ve Tic Ltd Sti (Turkey)

#### PART C: GUIDE TO THE INDUSTRY

- 1. NORTH AMERICA
- 2. EUROPE
- 3. ASIA-PACIFIC
- 4. REST OF WORLD

PART D: ANNEXURE

- 1. RESEARCH METHODOLOGY
- 2. FEEDBACK

#### **LIST OF FIGURES:**



Figure 1: Representation of a Colloidal Suspension in a Solution, Showing the Electric Double Layer

Figure 2: Nonionic Polyacrylamide

Figure 3: Partially Hydrolyzed Polyacrylamide Anionic Polymer

Figure 4: Cationic poly(DADMAC) or poly(DMDAAC) Polymers

Figure 5: Cationic Quarternized Polyamines



# **List Of Charts**

#### LIST OF CHARTS & GRAPHS

#### PART A: GLOBAL MARKET PERSPECTIVE

Chart 1: Global Coagulants & Flocculants Market (2018 & 2024) by Geographic Region

Chart 2: Global Coagulants & Flocculants Market (2018 & 2024) by Product Type/Sub-Types

Chart 3: Global Coagulants & Flocculants Market (2018 & 2024) by Application

Chart 4 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Mining Sector

Chart 5 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Oil & Gas Sector

Chart 6 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Pulp & Paper Sector

Chart 7 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Textiles Sector

Chart 8 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Water & Wastewater Treatment Sector

Chart 9 Trending of Global Coagulants & Flocculants Market (2018 & 2024) in Other Applications Sector

Chart 10: Global Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 11: Global Coagulants & Flocculants Market Analysis (2015-2024) by Type – Coagulants and Flocculants in USD Million

Chart 12: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 13: Global Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 14: Glance at 2015, 2018 and 2024 Global Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 15: Global Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 16: Glance at 2015, 2018 and 2024 Global Flocculants Market Share (%) by Sub-

Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 17: Global Coagulants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 18: Glance at 2015, 2018 and 2024 Global Coagulants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of



World

Chart 19: Global Inorganic Coagulants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 20: Glance at 2015, 2018 and 2024 Global Inorganic Coagulants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 21: Global Organic Coagulants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 22: Glance at 2015, 2018 and 2024 Global Organic Coagulants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 23: Global Flocculants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 24: Glance at 2015, 2018 and 2024 Global Flocculants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 25: Global Mineral Flocculants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 26: Glance at 2015, 2018 and 2024 Global Mineral Flocculants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 27: Global Natural Flocculants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 28: Glance at 2015, 2018 and 2024 Global Natural Flocculants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 29: Global Synthetic Flocculants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 30: Glance at 2015, 2018 and 2024 Global Synthetic Flocculants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 31: Global Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million



Chart 32: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Chart 33: Global Coagulants & Flocculants Market Analysis (2015-2024) in Mining by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 34: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Mining by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 35: Global Coagulants & Flocculants Market Analysis (2015-2024) in Oil & Gas by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 36: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Oil & Gas by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 37: Global Coagulants & Flocculants Market Analysis (2015-2024) in Pulp & Paper by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 38: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Pulp & Paper by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 39: Global Coagulants & Flocculants Market Analysis (2015-2024) in Textiles by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 40: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Textiles by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 41: Global Coagulants & Flocculants Market Analysis (2015-2024) in Water & Wastewater Treatment by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 42: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Water & Wastewater Treatment by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 43: Global Coagulants & Flocculants Market Analysis (2015-2024) in Other Applications by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 44: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) in Other Applications by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



#### PART B: REGIONAL MARKET PERSPECTIVE

Chart 45: Global Coagulants & Flocculants Market Analysis (2015-2024) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 46: Glance at 2015, 2018 and 2024 Global Coagulants & Flocculants Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

#### REGIONAL MARKET OVERVIEW

#### **NORTH AMERICA**

Chart 47: North American Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 48: North American Coagulants & Flocculants Market Analysis (2015-2024) by Geographic Region – United States, Canada and Mexico in USD Million

Chart 49: Glance at 2015, 2018 and 2024 North American Coagulants & Flocculants Market Share (%) by Geographic Region – United States, Canada and Mexico

Chart 50: North American Coagulants & Flocculants Market Analysis (2015-2024) by Type – Coagulants and Flocculants in USD Million

Chart 51: Glance at 2015, 2018 and 2024 North American Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 52: North American Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 53: Glance at 2015, 2018 and 2024 North American Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 54: North American Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 55: Glance at 2015, 2018 and 2024 North American Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 56: North American Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 57: Glance at 2015, 2018 and 2024 North American Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

The United States



Chart 58: United States Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 59: Glance at 2015, 2018 and 2024 United States Coagulants & Flocculants Market Share (%)

Chart 60: United States Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 61: Glance at 2015, 2018 and 2024 United States Coagulants Market Share (%)

by Sub-Type - Inorganic Coagulants and Organic Coagulants

Chart 62: United States Flocculants Market Analysis (2015-2024) by Sub-Type -

Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 63: Glance at 2015, 2018 and 2024 United States Flocculants Market Share (%)

by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 64: United States Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 65: Glance at 2015, 2018 and 2024 United States Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Canada

Chart 66: Canadian Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 67: Glance at 2015, 2018 and 2024 Canadian Coagulants & Flocculants Market Share (%)

Chart 68: Canadian Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 69: Glance at 2015, 2018 and 2024 Canadian Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 70: Canadian Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 71: Glance at 2015, 2018 and 2024 Canadian Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 72: Canadian Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 73: Glance at 2015, 2018 and 2024 Canadian Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Mexico

Chart 74: Mexican Coagulants & Flocculants Market Analysis (2015-2024) in USD



#### Million

Chart 75: Glance at 2015, 2018 and 2024 Mexican Coagulants & Flocculants Market Share (%)

Chart 76: Mexican Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 77: Glance at 2015, 2018 and 2024 Mexican Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 78: Mexican Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 79: Glance at 2015, 2018 and 2024 Mexican Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 80: Mexican Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 81: Glance at 2015, 2018 and 2024 Mexican Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### **EUROPE**

Chart 82: European Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 83: European Coagulants & Flocculants Market Analysis (2015-2024) by Geographic Region – France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe in USD Million

Chart 84: Glance at 2015, 2018 and 2024 European Coagulants & Flocculants Market Share (%) by Geographic Region – France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe

Chart 85: European Coagulants & Flocculants Market Analysis (2015-2024) by Type – Coagulants and Flocculants in USD Million

Chart 86: Glance at 2015, 2018 and 2024 European Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 87: European Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 88: Glance at 2015, 2018 and 2024 European Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 89: European Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 90: Glance at 2015, 2018 and 2024 European Flocculants Market Share (%) by



Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 91: European Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 92: Glance at 2015, 2018 and 2024 European Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### France

Chart 93: French Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 94: Glance at 2015, 2018 and 2024 French Coagulants & Flocculants Market Share (%)

Chart 95: French Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 96: Glance at 2015, 2018 and 2024 French Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 97: French Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 98: Glance at 2015, 2018 and 2024 French Flocculants Market Share (%) by Sub-

Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 99: French Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 100: Glance at 2015, 2018 and 2024 French Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### Germany

Chart 101: German Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 102: Glance at 2015, 2018 and 2024 German Coagulants & Flocculants Market Share (%)

Chart 103: German Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 104: Glance at 2015, 2018 and 2024 German Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 105: German Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 106: Glance at 2015, 2018 and 2024 German Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 107: German Coagulants & Flocculants Market Analysis (2015-2024) by



Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 108: Glance at 2015, 2018 and 2024 German Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications Italy

Chart 109: Italian Coagulants & Flocculants Market Analysis (2015-2024) in USD Million Chart 110: Glance at 2015, 2018 and 2024 Italian Coagulants & Flocculants Market Share (%)

Chart 111: Italian Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 112: Glance at 2015, 2018 and 2024 Italian Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 113: Italian Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 114: Glance at 2015, 2018 and 2024 Italian Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 115: Italian Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 116: Glance at 2015, 2018 and 2024 Italian Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Russia

Chart 117: Russian Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 118: Glance at 2015, 2018 and 2024 Russian Coagulants & Flocculants Market Share (%)

Chart 119: Russian Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 120: Glance at 2015, 2018 and 2024 Russian Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 121: Russian Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 122: Glance at 2015, 2018 and 2024 Russian Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 123: Russian Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million



Chart 124: Glance at 2015, 2018 and 2024 Russian Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Spain

Chart 125: Spanish Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 126: Glance at 2015, 2018 and 2024 Spanish Coagulants & Flocculants Market Share (%)

Chart 127: Spanish Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 128: Glance at 2015, 2018 and 2024 Spanish Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 129: Spanish Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 130: Glance at 2015, 2018 and 2024 Spanish Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 131: Spanish Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 132: Glance at 2015, 2018 and 2024 Spanish Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

The United Kingdom

Chart 133: United Kingdom Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 134: Glance at 2015, 2018 and 2024 United Kingdom Coagulants & Flocculants Market Share (%)

Chart 135: United Kingdom Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 136: Glance at 2015, 2018 and 2024 United Kingdom Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 137: United Kingdom Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 138: Glance at 2015, 2018 and 2024 United Kingdom Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 139: United Kingdom Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 140: Glance at 2015, 2018 and 2024 United Kingdom Coagulants & Flocculants



Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Rest of Europe

Chart 141: Rest of Europe Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 142: Glance at 2015, 2018 and 2024 Rest of Europe Coagulants & Flocculants Market Share (%)

Chart 143: Rest of Europe Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 144: Glance at 2015, 2018 and 2024 Rest of Europe Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 145: Rest of Europe Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 146: Glance at 2015, 2018 and 2024 Rest of Europe Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 147: Rest of Europe Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 148: Glance at 2015, 2018 and 2024 Rest of Europe Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### **ASIA-PACIFIC**

Chart 149: Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 150: Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) by Geographic Region – China, India, Japan, South Korea and Rest of Asia-Pacific in USD Million

Chart 151: Glance at 2015, 2018 and 2024 Asia-Pacific Coagulants & Flocculants Market Share (%) by Geographic Region – China, India, Japan, South Korea and Rest of Asia-Pacific

Chart 152: Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) by Type – Coagulants and Flocculants in USD Million

Chart 153: Glance at 2015, 2018 and 2024 Asia-Pacific Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 154: Asia-Pacific Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 155: Glance at 2015, 2018 and 2024 Asia-Pacific Coagulants Market Share (%)



by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 156: Asia-Pacific Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 157: Glance at 2015, 2018 and 2024 Asia-Pacific Flocculants Market Share (%)

by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 158: Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 159: Glance at 2015, 2018 and 2024 Asia-Pacific Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

China

Chart 160: Chinese Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 161: Glance at 2015, 2018 and 2024 Chinese Coagulants & Flocculants Market Share (%)

Chart 162: Chinese Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 163: Glance at 2015, 2018 and 2024 Chinese Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 164: Chinese Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 165: Glance at 2015, 2018 and 2024 Chinese Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 166: Chinese Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 167: Glance at 2015, 2018 and 2024 Chinese Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications India

Chart 168: Indian Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 169: Glance at 2015, 2018 and 2024 Indian Coagulants & Flocculants Market Share (%)

Chart 170: Indian Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 171: Glance at 2015, 2018 and 2024 Indian Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 172: Indian Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral



Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 173: Glance at 2015, 2018 and 2024 Indian Flocculants Market Share (%) by Sub-

Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 174: Indian Coagulants & Flocculants Market Analysis (2015-2024) by Application

 Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 175: Glance at 2015, 2018 and 2024 Indian Coagulants & Flocculants Market

Share (%) by Application - Mining, Oil & Gas, Pulp & Paper, Textiles, Water &

Wastewater Treatment and Other Applications

Japan

Chart 176: Japanese Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 177: Glance at 2015, 2018 and 2024 Japanese Coagulants & Flocculants Market Share (%)

Chart 178: Japanese Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 179: Glance at 2015, 2018 and 2024 Japanese Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 180: Japanese Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 181: Glance at 2015, 2018 and 2024 Japanese Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 182: Japanese Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 183: Glance at 2015, 2018 and 2024 Japanese Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

South Korea

Chart 184: South Korean Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 185: Glance at 2015, 2018 and 2024 South Korean Coagulants & Flocculants Market Share (%)

Chart 186: South Korean Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 187: Glance at 2015, 2018 and 2024 South Korean Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 188: South Korean Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million



Chart 189: Glance at 2015, 2018 and 2024 South Korean Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 190: South Korean Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 191: Glance at 2015, 2018 and 2024 South Korean Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Rest of Asia-Pacific

Chart 192: Rest of Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 193: Glance at 2015, 2018 and 2024 Rest of Asia-Pacific Coagulants & Flocculants Market Share (%)

Chart 194: Rest of Asia-Pacific Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 195: Glance at 2015, 2018 and 2024 Rest of Asia-Pacific Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 196: Rest of Asia-Pacific Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 197: Glance at 2015, 2018 and 2024 Rest of Asia-Pacific Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 198: Rest of Asia-Pacific Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 199: Glance at 2015, 2018 and 2024 Rest of Asia-Pacific Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### **SOUTH AMERICA**

Chart 200: South American Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 201: South American Coagulants & Flocculants Market Analysis (2015-2024) by Region – Argentina, Brazil and Rest of South America in USD Million Chart 202: Glance at 2015, 2018 and 2024 South American Coagulants & Flocculants

Market Share (%) by Region – Argentina, Brazil and Rest of South America Chart 203: South American Coagulants & Flocculants Market Analysis (2015-2024) by

Type – Coagulants and Flocculants in USD Million



Chart 204: Glance at 2015, 2018 and 2024 South American Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 205: South American Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 206: Glance at 2015, 2018 and 2024 South American Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 207: South American Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 208: Glance at 2015, 2018 and 2024 South American Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 209: South American Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 210: Glance at 2015, 2018 and 2024 South American Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Argentina

Chart 211: Argentine Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 212: Glance at 2015, 2018 and 2024 Argentine Coagulants & Flocculants Market Share (%)

Chart 213: Argentine Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 214: Glance at 2015, 2018 and 2024 Argentine Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 215: Argentine Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 216: Glance at 2015, 2018 and 2024 Argentine Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 217: Argentine Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 218: Glance at 2015, 2018 and 2024 Argentine Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Brazil

Chart 219: Brazilian Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 220: Glance at 2015, 2018 and 2024 Brazilian Coagulants & Flocculants Market



Share (%)

Chart 221: Brazilian Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 222: Glance at 2015, 2018 and 2024 Brazilian Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 223: Brazilian Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 224: Glance at 2015, 2018 and 2024 Brazilian Flocculants Market Share (%) by

Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 225: Brazilian Coagulants & Flocculants Market Analysis (2015-2024) by

Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 226: Glance at 2015, 2018 and 2024 Brazilian Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

Rest of South America

Chart 227: Rest of South American Coagulants & Flocculants Market Analysis (2015-2024) in USD Million

Chart 228: Glance at 2015, 2018 and 2024 Rest of South American Coagulants & Flocculants Market Share (%)

Chart 229: Rest of South American Coagulants Market Analysis (2015-2024) by Sub-

Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 230: Glance at 2015, 2018 and 2024 Rest of South American Coagulants Market

Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 231: Rest of South American Flocculants Market Analysis (2015-2024) by Sub-

Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million

Chart 232: Glance at 2015, 2018 and 2024 Rest of South American Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants

Chart 233: Rest of South American Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 234: Glance at 2015, 2018 and 2024 Rest of South American Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications

#### **REST OF WORLD**



Chart 235: Rest of World Coagulants & Flocculants Market Analysis (2015-2024) by Type – Coagulants and Flocculants in USD Million

Chart 236: Glance at 2015, 2018 and 2024 Rest of World Coagulants & Flocculants Market Share (%) by Type – Coagulants and Flocculants

Chart 237: Rest of World Coagulants Market Analysis (2015-2024) by Sub-Type – Inorganic Coagulants and Organic Coagulants in USD Million

Chart 238: Glance at 2015, 2018 and 2024 Rest of World Coagulants Market Share (%) by Sub-Type – Inorganic Coagulants and Organic Coagulants

Chart 239: Rest of World Flocculants Market Analysis (2015-2024) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants in USD Million Chart 240: Glance at 2015, 2018 and 2024 Rest of World Flocculants Market Share (%) by Sub-Type – Mineral Flocculants, Natural Flocculants and Synthetic Flocculants Chart 241: Rest of World Coagulants & Flocculants Market Analysis (2015-2024) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications in USD Million

Chart 242: Glance at 2015, 2018 and 2024 Rest of World Coagulants & Flocculants Market Share (%) by Application – Mining, Oil & Gas, Pulp & Paper, Textiles, Water & Wastewater Treatment and Other Applications



# **List Of Tables**

#### **LIST OF TABLES:**

- Table 1: Components of Major Pollutants at Various Stages of Textile Manufacture
- Table 2: General Applications of Coagulants and Flocculants in Water & Wastewater Treatment
- Table 3: Other Applications of Coagulants and Flocculants
- Table 4: Various Types of Biocoagulants and their Efficiencies in Treating Turbid Potable Water



#### I would like to order

Product name: Coagulants & Flocculants – A Global Market Overview Product link: <a href="https://marketpublishers.com/r/C1AF840E5ABEN.html">https://marketpublishers.com/r/C1AF840E5ABEN.html</a>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

First name: Last name: Email:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/C1AF840E5ABEN.html">https://marketpublishers.com/r/C1AF840E5ABEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

& Conditions at https://marketpublishers.com/docs/terms.html

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms