

Global Polyaluminium Chloride Market Research Report 2016

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Abstracts

This report studies Polyaluminium Chloride in Global market, especially in North America, Europe, China, Japan, Taiwan and India, focuses on top manufacturers in global market, with capacity, production, price, revenue and market share for each manufacturer, covering

Neelchem

Kashyap Industries

Yixing Bluwat Chemicals Co., Ltd.

Suvidhi Industries

Feralco Deutschland GmbH

A. & E. Fischer - Chemie GmbH & Co. KG

F.B. Silberman GmbH & Co. KG

LOBECK CHEMIE AG

MOBI Sp. z o.o.

Bluwat

Weifang Zhongqing Fine Chemical Co., Ltd.

Shangdong Jiangyuan Refinement Co., Ltd.

Qingdao Yuyin Chemical Co., Ltd.

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of Polyaluminium Chloride in these regions, from 2011 to 2021 (forecast), like

North America

China

Europe

Japan

Taiwan

India

Row

Split by Product Types, with production, revenue, price, market share and growth rate of each type, can be divided into

Mid - basicity liquid PAC, 18%

High - basicity liquid PAC, 9%

Mid - basicity powder PAC, 30%

High - basicity liquid PAC, 9% HB

Split by applications, this report focuses on consumption, market share and growth rate of Polyaluminium Chloride in each application, can be divided into

Water purifying

Paper Making

pH Adjustment

Academic Research

Soil Treatment

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1 Polyaluminium Chloride Market Overview

1.1 Product Overview and Scope of Polyaluminium Chloride

Polyaluminium Chloride refers to a class of soluble aluminum products in which aluminum chloride has been partly reacted with base. The relative amount of OH⁻, compared to the amount of Al, determines the basicity of a particular PAC product. The chemistry of PAC is often expressed in the form $Al_n(OH)_mCl_{(3n-m)}$. Basicity can be defined by the term $m/(3n)$ in that equation. Because PAC is more expensive to produce than papermakers alum (aluminum sulfate) it is important to note the most important differences between these two products. Solutions of PAC are not as acidic as alum; consequently they do not tend to decrease the pH of the furnish nearly as much as an equivalent amount of alum. Another difference is that PAC is formulated so that it already contains some of the highly cationic oligomers of aluminum - materials that are especially effective for the modification of colloidal charges in a papermaking furnish. A particularly stable and important ionic species in PAC and related soluble aluminum chemicals has the formula $Al_{12}(OH)_{24}AlO_4(H_2O)_{127+}$.

Figure Picture of Polyaluminium Chloride

Source: QYR aaaa Research Center, Dec. 2016

1.2 Polyaluminium Chloride Segment by Types

1.2.1 Global Production Market Share of Polyaluminium Chloride by Types in 2015

Figure Global Production Market Share of Polyaluminium Chloride by Types in 2015

Source: QYR aaaa Research Center, Dec. 2016

Table Classification of Polyaluminium Chloride

Types Feature Description

1

2

3

Source: QYR aaaa Research Center, Dec. 2016

1.2.2 Mid - basicity liquid PAC, 18%

Figure Product Picture of Mid - basicity liquid PAC, 18%

Source: QYR aaaa Research Center, Dec. 2016

Table Major Manufacturers of Mid - basicity liquid PAC, 18%

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR aaaa Research Center, Dec. 2016

1.2.3 High - basicity liquid PAC, 9%

Figure Product Picture of High - basicity liquid PAC, 9%

Source: QYR aaaa Research Center, Dec. 2016

Table Major Manufacturers of High - basicity liquid PAC, 9%

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR aaaa Research Center, Dec. 2016

1.2.4 Mid - basicity powder PAC, 30%

Figure Product Picture of Mid - basicity powder PAC, 30%

Source: QYR aaaa Research Center, Dec. 2016

Table Major Manufacturers of Mid - basicity powder PAC, 30%

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR aaaa Research Center, Dec. 2016

1.2.5 High - basicity liquid PAC, 9% HB

Figure Product Picture of High - basicity liquid PAC, 9% HB

Source: QYR aaaa Research Center, Dec. 2016

Table Major Manufacturers of High - basicity liquid PAC, 9% HB

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR aaaa Research Center, Dec. 2016

1.2.6 Others

Figure Product Picture of Others

Source: QYR aaaa Research Center, Dec. 2016

Table Major Manufacturers of Others

Manufacturers Location of Manufacturing Bases/Factories

1
2
3
?

Source: Above Companies; QYR aaaa Research Center, Dec. 2016

1.3 Polyaluminium Chloride Segment by Applications

1.3.1 Polyaluminium Chloride Consumption Market Share by Applications in 2015

Table Polyaluminium Chloride Consumption Market Share by Applications in 2015

Source: QYR aaaa Research Center, Dec. 2016

Table Applications of Polyaluminium Chloride

Applications Feature Description

1
2
3

Source: QYR aaaa Research Center, Dec. 2016

1.3.2 Water purifying

Water purifying

Figure Water purifying Examples

Source: QYR aaaa Research Center, Dec. 2016

1.3.3 Paper Making

Paper Making

Figure Paper Making Examples

Source: QYR aaaa Research Center, Dec. 2016

1.3.4 pH Adjustment

pH Adjustment

Figure pH Adjustment Examples

Source: QYR aaaa Research Center, Dec. 2016

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Source: QYR aaaa Research Center, Dec. 2016

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Source: QYR aaaa Research Center, Dec. 2016

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Source: QYR aaaa Research Center, Dec. 2016

1.4.2 China Status and Prospect (2011-2021)

Figure China Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.4.3 Europe Status and Prospect (2011-2021)

Figure Europe Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.4.4 Japan Status and Prospect (2011-2021)

Figure Japan Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.4.5 Taiwan Status and Prospect (2011-2021)

Figure Taiwan Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.4.6 India Status and Prospect (2011-2021)

Figure India Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.4.7 Row Status and Prospect (2011-2021)

Figure Row Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

1.5 Global Market Size (Value) of Polyaluminium Chloride (2011-2021)

Figure Global Polyaluminium Chloride Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR aaaa Research Center, Dec. 2016

2 Global Polyaluminium Chloride Market Competition by Manufacturers

2.1 Global Polyaluminium Chloride Capacity, Production and Share by Manufacturers (2015 and 2016)

Table Global Polyaluminium Chloride Capacity of Key Manufacturers (2015 and 2016)
Capacity 2015 2016

Neelchem

Kashyap Industries

Yixing Bluwat Chemicals Co., Ltd.

Suvidhi Industries

Feralco Deutschland GmbH

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Capacity Market Share of Key Manufacturers
(2015 and 2016)

Capacity 2015 2016

Neelchem

Kashyap Industries

Yixing Bluwat Chemicals Co., Ltd.

Suvidhi Industries

Feralco Deutschland GmbH

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Capacity of Key Manufacturers in 2015

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Capacity of Key Manufacturers in 2016

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Production of Key Manufacturers (2015 and 2016)
Production 2015 2016

Neelchem

Kashyap Industries

Yixing Bluwat Chemicals Co., Ltd.

Suvidhi Industries

Feralco Deutschland GmbH

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Production Share by Manufacturers (2015 and
2016)

Production Share 2015 2016

Neelchem

Kashyap Industries

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure 2015 Polyaluminium Chloride Production Share by Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure 2016 Polyaluminium Chloride Production Share by Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

2.2 Global Polyaluminium Chloride Revenue and Share by Manufacturers (2015 and 2016)

Table Global Polyaluminium Chloride Revenue (Million USD) by Manufacturers (2015 and 2016)

Revenue 2015 2016

Neelchem

Kashyap Industries

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Revenue Share by Manufacturers (2015 and 2016)

Revenue Share 2015 2016

Neelchem

Kashyap Industries

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table 2015 Global Polyaluminium Chloride Revenue Share by Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table 2016 Global Polyaluminium Chloride Revenue Share by Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

2.3 Global Polyaluminium Chloride Average Price by Manufacturers (2015 and 2016)

Table Global Market Polyaluminium Chloride Average Price of Key Manufacturers (2015 and 2016)

2015 2016

Neelchem

Kashyap Industries

?

Total

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure Global Market Polyaluminium Chloride Average Price of Key Manufacturers in 2015

Source: Above companies; QYR aaaa Research Center, Dec. 2016

2.4 Manufacturers Polyaluminium Chloride Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers Polyaluminium Chloride Manufacturing Base Distribution and Sales Area

Manufacturing Base Distribution Sales Area

Neelchem

Kashyap Industries

?

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Table Manufacturers Polyaluminium Chloride Product Types

Product Types

Neelchem

Kashyap Industries

?

Source: Above companies; QYR aaaa Research Center, Dec. 2016

2.5 Polyaluminium Chloride Market Competitive Situation and Trends?

2.5.1 Polyaluminium Chloride Market Concentration Rate

2.5.2 Polyaluminium Chloride Market Share of Top 3 and Top 5 Manufacturers

Figure Polyaluminium Chloride Market Share of Top 3 Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

Figure Polyaluminium Chloride Market Share of Top 5 Manufacturers

Source: Above companies; QYR aaaa Research Center, Dec. 2016

2.5.3 Mergers & Acquisitions, Expansion

3 Global Polyaluminium Chloride Capacity, Production, Revenue (Value) by Regions (2011-2016)

3.1 Global Polyaluminium Chloride Capacity and Market Share by Regions (2011-2016)

Table Global Polyaluminium Chloride Capacity by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Capacity Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan
Taiwan
India
Row
ROW
Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Capacity Market Share by Regions (2011-2016)

Source: QYR aaaa Research Center, Dec. 2016

Figure 2015 Global Polyaluminium Chloride Capacity Market Share by Regions

Source: QYR aaaa Research Center, Dec. 2016

3.2 Global Polyaluminium Chloride Production and Market Share by Regions
(2011-2016)

Table Global Polyaluminium Chloride Production by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Production and Market Share by Regions
(2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Production Market Share by Regions (2011-2016)

Source: QYR aaaa Research Center, Dec. 2016

Figure 2015 Global Polyaluminium Chloride Production Market Share by Regions

Source: QYR aaaa Research Center, Dec. 2016

3.3 Global Polyaluminium Chloride Revenue (Value) and Market Share by Regions (2011-2016)

Table Global Polyaluminium Chloride Revenue by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Revenue Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Table 2015 Global Polyaluminium Chloride Revenue Market Share by Regions

Source: QYR aaaa Research Center, Dec. 2016

3.4 Global Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.5 North America Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table North America Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.6 Europe Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Europe Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.7 China Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.8 Japan Polyalumnum Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan Polyalumnum Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.9 Taiwan Polyalumnum Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Taiwan Polyalumnum Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.10 India Polyalumnum Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

3.11 Row Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Polyaluminium Chloride Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR aaaa Research Center, Dec. 2016

4 Global Polyaluminium Chloride Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Polyaluminium Chloride Consumption by Regions (2011-2016)

Table Global Polyaluminium Chloride Consumption Market by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Consumption Market Share by Regions
(2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Global Polyaluminium Chloride Consumption Market Share by Regions
(2011-2016)

Source: QYR aaaa Research Center, Dec. 2016

Figure 2015 Global Polyaluminium Chloride Consumption Market Share by Regions

Source: QYR aaaa Research Center, Dec. 2016

4.2 North America Polyaluminium Chloride Production, Consumption, Export, Import by
Regions (2011-2016)

Table North America Polyaluminium Chloride Production, Consumption, Import & Export
(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.3 Europe Polyaluminium Chloride Production, Consumption, Export, Import by
Regions (2011-2016)

Table Europe Polyaluminium Chloride Production, Consumption, Import & Export
(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.4 China Polyaluminium Chloride Production, Consumption, Export, Import by Regions (2011-2016)

Table China Polyaluminium Chloride Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.5 Japan Polyaluminium Chloride Production, Consumption, Export, Import by Regions (2011-2016)

Table Japan Polyaluminium Chloride Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.6 Taiwan Polyaluminium Chloride Production, Consumption, Export, Import by Regions (2011-2016)

Table Taiwan Polyaluminium Chloride Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.7 India Polyaluminium Chloride Production, Consumption, Export, Import by Regions (2011-2016)

Table India Polyaluminium Chloride Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR aaaa Research Center, Dec. 2016

4.8 Row Polyaluminium Chloride Production, Consumption, Export, Import by Regions (2011-2016)

Table Row Polyaluminium Chloride Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production**Import****Export****Consumption**

Source: QYR aaaa Research Center, Dec. 2016

5 Global Polyaluminium Chloride Production, Revenue (Value), Price Trend by Types

5.1 Global Polyaluminium Chloride Production and Market Share by Types (2011-2016)

Table Global Polyaluminium Chloride Production by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Mid - basicity liquid PAC, 18%

High - basicity liquid PAC, 9%

?

Total

Source: QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Production Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Mid - basicity liquid PAC, 18%

High - basicity liquid PAC, 9%

?

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Production Market Share of Polyaluminium Chloride by Types (2011-2016)

Source: QYR aaaa Research Center, Dec. 2016

Figure 2015 Production Market Share of Polyaluminium Chloride by Types

Source: QYR aaaa Research Center, Dec. 2016

5.2 Global Polyaluminium Chloride Revenue and Market Share by Types (2011-2016)

Table Global Polyaluminium Chloride Revenue by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Mid - basicity liquid PAC, 18%

High - basicity liquid PAC, 9%

?

Total

Source: QYR aaaa Research Center, Dec. 2016

Table Global Polyaluminium Chloride Revenue Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Mid - basicity liquid PAC, 18%

High - basicity liquid PAC, 9%

?

Total

Source: QYR aaaa Research Center, Dec. 2016

Figure Production Revenue Share of Polyaluminium Chloride by Types (2011-2016)

Source: QYR aaaa Research Center, Dec. 2016

Figure 2015 Revenue Market Share of Polyaluminium Chloride by Types

Source: QYR aaaa Research Center, Dec. 2016

5.3 Global Polyaluminium Chloride Price by Type (2011-2016)

Table Global Polyaluminium Chloride Price by Types (2011-2016)

2011 2012 2013 2014 2015 2016

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