

Aqueous-based Metal Cleaners Market by Cleaning Chemicals (Builders, Sequestrants & Inhibitors, Surfactants), End-use Industries (Manufacturing, Automotive & Aerospace, Healthcare), Chemistry Type, Technology and Region- Global Forecast to 2027

<https://marketpublishers.com/r/A3BF10A1A47CEN.html>

Date: January 2023

Pages: 265

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

ID: A3BF10A1A47CEN

Abstracts

The global aqueous-based metal cleaners market will grow to USD 14.6 billion by 2027, at a CAGR of 5.4% from USD 11.2 billion in 2022. Automotive and manufacturing are the key end-use industries of aqueous metal cleaners. The use of aqueous metal cleaners in manufacturing body parts is essential. Metal body parts of vehicles are cleaned by aqueous metal cleaners. There is increased production of vehicles globally. This leads to an increase in the usage of aqueous metal cleaners in the industry.

“Dip is projected to be the second fastest-growing technology of aqueous-based metal cleaners market during the forecast period.”

Dip or immersion technology is a lower-cost parts cleaning method, but it operates at higher chemical concentration levels and high temperatures for effective cleaning. In this technology, small or large parts are immersed in the tank of cleaning solution at a high temperature. Dip technology is an effective way to remove contaminants in industrial manufacturing, which often produce large amounts of dirt. This technology is majorly used for objects including vehicles, machinery, pharmaceutical, and industrial that are difficult to clean using other methods.

“Acidic is estimated to be the second largest chemistry type in aqueous-based metal cleaners market, in terms of value, in 2021”

After alkaline cleaners, acidic cleaners are the second-most widely used cleaners globally. Acidic cleaners are water-based mixtures with a pH level of less than 7. They are majorly used to remove scale, rust, and oxides from metals. Surface treatments, including phosphating and brightening, use acidic chemistry types of aqueous solutions. Use of eye protection equipment and gloves is required for protection from the fumes while using acidic cleaners.

“Sequestrants and inhibitors are projected to be the second fastest-growing cleaning chemical of aqueous-based metal cleaners market during the forecast period.”

Sequestrants are water conditioners that are used to prevent the precipitation and deposit of metal ions in alkaline media. They help to remove oxide layers without attacking the base metal and to control water hardness. Their function is to form soluble complexes, either with calcium and magnesium or with metals from dissolved oxides. Examples of such sequestrants are tripolyphosphates, organic phosphates, and polycarbonic acid salts such as sodium gluconates. Inhibitors are used in aqueous-based metal cleaning solutions. Corrosion of metal parts during cleaning is of lesser importance with alkaline cleaners and ferrous metals. In alkaline solutions, iron and steel are relatively stable. The case is different for acid systems or for non-ferrous metals. Depending on the builder system, the pH value, and the workpiece metal, various substances can be used.

“Automotive & aerospace is estimated to be the second largest end-use industry in aqueous-based metal cleaners market, in terms of value, in 2021”

Aircraft require regular cleaning to prevent them from early wear and tear and to increase the product life. The automotive sector requires cleaning and polishing during the manufacturing and assembly stages. In this industry, regular tire cleaning, body cleaning, and window cleaning are also required. In the automotive industry, aqueous-based metal cleaners are used to clean oil, rear-end gear grease, and heavy brake dust from brake parts. Automated spray washers that work in conjunction with aqueous cleaners are helped to clean auto parts, thereby eliminating the need for manual scrubbing and brushing.

“North America is estimated to be the second-largest aqueous-based metal cleaners market, in terms of value, in 2021”

North America comprises developed economies, and the region has strong

manufacturing, automotive, aerospace & defense industries. This region is technologically advanced, with various innovations in the hardware and software sectors. North America has flourished owing to the growth of economies such as the US, Canada, and Mexico. These countries are strongly integrated through the North American Free Trade Agreement (NAFTA), owing to which trade between these countries has increased significantly during the past 20 years and has accelerated the economic growth of the US, Canada, and Mexico. The US and Canada are interconnected through OEMs and automotive parts businesses manufacturing and assembling automobiles.

Breakdown of primaries

The study contains insights from various industry experts, ranging from raw material suppliers to Tier 1 companies. The break-up of the primaries is as follows:

By Company Type: Tier 1 - 46%, Tier 2 - 31%, and Tier 3 - 23%

By Designation: C-Level - 46%, Director Level - 27%, and Others - 27%

By Region: North America - 33%, Europe - 27%, APAC - 27%, South America - 7%, Middle East & Africa - 6%,

The key market players profiled in the report include BASF SE (Germany), Dow Inc. (US), Stepan Company (US), Evonik Industries AG (Germany), Eastman Chemical Company (US), Nouryon (Netherlands), Clariant AG (Switzerland), The Chemours Company (US), Indorama Ventures Public Company Limited (Thailand), Ashland Global Holdings Inc. (US).

Research Coverage

This report segments the market for aqueous-based metal cleaners is based on technology, chemistry type, cleaning chemicals, end-use industry and region, and provides estimations for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, associated with the market for aqueous-based metal cleaners.

Reasons to Buy this Report

This research report is focused on various levels of analysis — industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the aqueous-based metal cleaners market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on aqueous-based metal cleaners offered by top players in the global market

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for aqueous-based metal cleaners across regions

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global aqueous-based metal cleaners market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the aqueous-based metal cleaners market

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS & EXCLUSIONS

1.3.1 AQUEOUS-BASED METAL CLEANERS MARKET DEFINITION AND INCLUSIONS, BY TECHNOLOGY

1.3.2 AQUEOUS-BASED METAL CLEANERS MARKET DEFINITION AND INCLUSIONS, BY CHEMISTRY TYPE

1.3.3 AQUEOUS-BASED METAL CLEANERS MARKET DEFINITION AND INCLUSIONS, BY CLEANING CHEMICAL

1.3.4 AQUEOUS-BASED METAL CLEANERS MARKET DEFINITION AND INCLUSIONS, BY END-USE INDUSTRY

1.4 STUDY SCOPE

1.4.1 AQUEOUS-BASED METAL CLEANERS MARKET SEGMENTATION

1.4.2 REGIONS COVERED

1.4.3 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 UNIT CONSIDERED

1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 AQUEOUS-BASED METAL CLEANERS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews–Demand and supply sides

2.1.2.2 Key Industry Insights

2.1.2.3 Breakdown of primary interviews

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 1 - BOTTOM-UP (SUPPLY SIDE): COLLECTIVE SHARE OF TOP PLAYERS

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 1 - BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE OF ALL PRODUCTS

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (DEMAND

SIDE)

2.2.2 TOP-DOWN APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 3 –TOP-DOWN

2.3 DATA TRIANGULATION

FIGURE 6 AQUEOUS-BASED METAL CLEANERS MARKET: DATA TRIANGULATION

2.4 GROWTH RATE ASSUMPTIONS & FORECAST

2.4.1 SUPPLY SIDE

FIGURE 7 MARKET CAGR PROJECTIONS FROM SUPPLY SIDE

2.4.2 DEMAND SIDE

FIGURE 8 MARKET GROWTH PROJECTIONS FROM DEMAND SIDE: DRIVERS AND OPPORTUNITIES

2.5 IMPACT OF RECESSION

2.6 FACTOR ANALYSIS

2.7 RESEARCH ASSUMPTIONS

2.8 RESEARCH LIMITATIONS

2.9 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 9 MANUFACTURING WAS LARGEST END-USE INDUSTRY OF AQUEOUS-BASED METAL CLEANERS IN 2021

FIGURE 10 ULTRASONIC TECHNOLOGY TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

FIGURE 11 ALKALINE TO BE LARGEST CHEMISTRY TYPE IN AQUEOUS-BASED METAL CLEANERS MARKET

FIGURE 12 SURFACTANTS TO BE LARGEST CLEANING CHEMICALS IN AQUEOUS-BASED METAL CLEANERS MARKET DURING FORECAST PERIOD

FIGURE 13 ASIA PACIFIC ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

4 PREMIUM INSIGHTS

4.1 BRIEF OVERVIEW OF AQUEOUS-BASED METAL CLEANERS MARKET

FIGURE 14 MANUFACTURING INDUSTRY TO DRIVE MARKET DURING FORECAST PERIOD

4.2 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION

FIGURE 15 ASIA PACIFIC TO BE LARGEST MARKET DURING FORECAST PERIOD

4.3 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY AND COUNTRY

FIGURE 16 AQUEOUS CLEANERS SEGMENT AND CHINA ACCOUNTED FOR LARGEST SHARES IN 2021

4.4 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, TECHNOLOGY VS. REGION

FIGURE 17 ULTRASONIC LED AQUEOUS-BASED METAL CLEANERS MARKET

4.5 AQUEOUS-BASED METAL CLEANERS MARKET: BY MAJOR COUNTRIES

FIGURE 18 INDIA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 DRIVERS, RESTRAINTS, CHALLENGES, AND OPPORTUNITIES IN AQUEOUS-BASED METAL CLEANERS MARKET

5.2.1 DRIVERS

5.2.1.1 Rapidly growing automotive and manufacturing industries

FIGURE 20 WORLD MOTOR VEHICLE PRODUCTION, 2017–2021

5.2.1.2 Increasing demand for aqueous-based metal cleaners over solvent-based cleaners

5.2.1.3 Transition to safer alternatives for solvent degreasing applications

5.2.2 RESTRAINTS

5.2.2.1 Factors pertaining to environmental responsibility

5.2.2.2 Higher energy demand compared to solvent cleaners

TABLE 1 VAPORIZATION HEAT FOR DRYING PROPERTIES

5.2.3 OPPORTUNITIES

5.2.3.1 Green and biobased alternatives to traditional metal cleaners

5.2.3.2 Increased demand for aqueous metal cleaners from 3D printing industry

5.2.4 CHALLENGES

5.2.4.1 Potential for re-use and recycling in solvent cleaning

5.3 PORTER'S FIVE FORCES ANALYSIS

FIGURE 21 AQUEOUS-BASED METAL CLEANERS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.3.1 THREAT OF NEW ENTRANTS

5.3.2 THREAT OF SUBSTITUTES

5.3.3 BARGAINING POWER OF SUPPLIERS

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

TABLE 2 AQUEOUS-BASED METAL CLEANERS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.4 KEY STAKEHOLDERS & BUYING CRITERIA

5.4.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 22 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE CLEANING CHEMICALS

TABLE 3 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE CLEANING CHEMICALS (%)

5.4.2 BUYING CRITERIA

FIGURE 23 KEY BUYING CRITERIA FOR TOP THREE CLEANING CHEMICALS

TABLE 4 KEY BUYING CRITERIA FOR TOP THREE CLEANING CHEMICALS

5.5 MACROECONOMIC INDICATORS

5.5.1 GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES

TABLE 5 GDP TRENDS AND FORECAST OF MAJOR ECONOMIES, 2019–2027 (USD BILLION)

6 INDUSTRY TRENDS

6.1 SUPPLY CHAIN ANALYSIS

FIGURE 24 AQUEOUS-BASED METAL CLEANERS MARKET: SUPPLY CHAIN

6.1.1 RAW MATERIALS

6.1.2 METAL CLEANING CHEMICAL MANUFACTURERS FOR AQUEOUS FORMULATIONS

6.1.3 FINISHED AQUEOUS-BASED METAL CLEANER MANUFACTURERS

6.1.4 DISTRIBUTION NETWORK

6.1.5 END-USE INDUSTRIES

6.2 AQUEOUS-BASED METAL CLEANERS MARKET: REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS

FIGURE 25 MARKET SIZE UNDER REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS

TABLE 6 AQUEOUS-BASED METAL CLEANERS MARKET FORECAST SCENARIO, 2019–2027 (USD MILLION)

6.2.1 NON-COVID-19 SCENARIO

6.2.2 OPTIMISTIC SCENARIO

6.2.3 PESSIMISTIC SCENARIO

6.2.4 REALISTIC SCENARIO

6.3 PRICING ANALYSIS

6.3.1 AVERAGE SELLING PRICE FOR END-USE INDUSTRY, BY KEY PLAYERS

FIGURE 26 AVERAGE SELLING PRICE FOR TOP THREE END-USE INDUSTRIES, BY KEY PLAYERS

TABLE 7 AVERAGE SELLING PRICE FOR TOP THREE END-USE INDUSTRIES, BY

KEY PLAYERS (USD/KG)**6.3.2 AVERAGE SELLING PRICE, BY REGION****FIGURE 27 AVERAGE SELLING PRICE OF AQUEOUS-BASED METAL CLEANERS, BY REGION****TABLE 8 AVERAGE SELLING PRICE OF AQUEOUS-BASED METAL CLEANERS, BY REGION (USD/KG)****6.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS****6.4.1 REVENUE SHIFTS & REVENUE POCKETS FOR AQUEOUS-BASED METAL CLEANERS MARKET****FIGURE 28 REVENUE SHIFT FOR AQUEOUS-BASED METAL CLEANERS MARKET****6.5 CONNECTED MARKETS: ECOSYSTEM****TABLE 9 AQUEOUS-BASED METAL CLEANERS MARKET: ECOSYSTEM****FIGURE 29 AQUEOUS-BASED METAL CLEANERS MARKET: ECOSYSTEM****6.6 TECHNOLOGY ANALYSIS****6.6.1 CYCLIC NUCLEATION PROCESS TECHNOLOGY FOR CLEANING METALS****6.6.2 BIO-REMEDICATION****6.7 CASE STUDY ANALYSIS****6.7.1 CASE STUDY ON AEROSOL SERVICE SP. Z O.O.****6.7.2 CASE STUDY ON LIGHTOLIER****6.8 TRADE DATA STATISTICS****6.8.1 IMPORT SCENARIO OF SURFACTANTS****FIGURE 30 IMPORTS OF SURFACTANTS, BY KEY COUNTRY (2012–2021)****TABLE 10 IMPORTS OF SURFACTANTS, BY REGION, 2012–2021 (USD MILLION)****6.8.2 EXPORT SCENARIO OF SURFACTANTS****FIGURE 31 EXPORTS OF SURFACTANTS, BY KEY COUNTRY (2012–2021)****TABLE 11 EXPORTS OF SURFACTANTS, BY REGION, 2012–2021 (USD MILLION)****6.9 REGULATORY LANDSCAPE****6.9.1 REGULATIONS RELATED TO AQUEOUS-BASED METAL CLEANERS****6.10 KEY CONFERENCES & EVENTS, 2022–2023****TABLE 12 AQUEOUS-BASED METAL CLEANERS MARKET: DETAILED LIST OF CONFERENCES & EVENTS****6.11 PATENT ANALYSIS****6.11.1 APPROACH****6.11.2 DOCUMENT TYPE****TABLE 13 TOTAL NUMBER OF PATENTS IN LAST 11 YEARS (2011–2021)****FIGURE 32 PATENTS REGISTERED IN AQUEOUS-BASED METAL CLEANERS MARKET, 2011–2021****FIGURE 33 PATENT PUBLICATION TRENDS, 2011–2021****FIGURE 34 LEGAL STATUS OF PATENTS FILED IN AQUEOUS-BASED METAL**

CLEANERS MARKET

6.11.3 JURISDICTION ANALYSIS

FIGURE 35 MAXIMUM PATENTS FILED IN JURISDICTION OF US

6.11.4 TOP APPLICANTS

FIGURE 36 PROCTER & GAMBLE REGISTERED MAXIMUM NUMBER OF PATENTS BETWEEN 2011 AND 2021

TABLE 14 PATENTS BY PROCTER & GAMBLE

TABLE 15 LIST OF PATENTS BY ECOLAB INC.

TABLE 16 TOP 10 PATENT OWNERS IN US, 2011–2021

7 AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

FIGURE 37 ULTRASONIC TO BE LARGEST TECHNOLOGY DURING FORECAST PERIOD

TABLE 17 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)

TABLE 18 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)

TABLE 19 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 20 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)

7.2 ULTRASONIC TECHNOLOGY

7.2.1 HIGH LEVEL OF CLEANLINESS TO FUEL MARKET GROWTH

FIGURE 38 ASIA PACIFIC TO BE LARGEST AQUEOUS-BASED METAL CLEANERS MARKET IN ULTRASONIC TECHNOLOGY DURING FORECAST PERIOD

TABLE 21 AQUEOUS-BASED METAL CLEANERS MARKET SIZE IN ULTRASONIC TECHNOLOGY, BY REGION, 2017–2020 (KILOTON)

TABLE 22 AQUEOUS-BASED METAL CLEANERS MARKET SIZE IN ULTRASONIC TECHNOLOGY, BY REGION, 2021–2027 (KILOTON)

TABLE 23 AQUEOUS-BASED METAL CLEANERS MARKET SIZE IN ULTRASONIC TECHNOLOGY, BY REGION, 2017–2020 (USD MILLION)

TABLE 24 AQUEOUS-BASED METAL CLEANERS MARKET SIZE IN ULTRASONIC TECHNOLOGY, BY REGION, 2021–2027 (USD MILLION)

7.3 RINSE TECHNOLOGY

7.3.1 APPLICATION IN VARIOUS CLEANING PROCESSES TO FUEL DEMAND

FIGURE 39 NORTH AMERICA TO BE SECOND-LARGEST MARKET IN RINSE TECHNOLOGY DURING FORECAST PERIOD

TABLE 25 RINSE TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 26 RINSE TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 27 RINSE TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 28 RINSE TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

7.4 DIP TECHNOLOGY (IMMERSION)

7.4.1 EFFECTIVENESS IN CLEANING DELICATE OBJECTS TO DRIVE DEMAND

FIGURE 40 ASIA PACIFIC TO BE FASTEST-GROWING MARKET FOR DIP TECHNOLOGY DURING FORECAST PERIOD

TABLE 29 DIP TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 30 DIP TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 31 DIP TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 32 DIP TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

7.5 SPRAY TECHNOLOGY

7.5.1 COST-EFFECTIVE CLEANING METHOD TO FUEL DEMAND

FIGURE 41 ASIA PACIFIC TO BE FASTEST-GROWING MARKET IN SPRAY TECHNOLOGY DURING FORECAST PERIOD

TABLE 33 SPRAY TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 34 SPRAY TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 35 SPRAY TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 36 SPRAY TECHNOLOGY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

8 AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE

8.1 INTRODUCTION

FIGURE 42 ALKALINE TO BE LARGEST SEGMENT DURING FORECAST PERIOD

TABLE 37 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (KILOTON)

TABLE 38 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)

TABLE 39 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)

TABLE 40 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)

8.2 ALKALINE

8.2.1 GROWING AWARENESS AND EXCELLENT PROPERTIES TO DRIVE MARKET

FIGURE 43 ASIA PACIFIC TO BE LARGEST MARKET IN ALKALINE SEGMENT DURING FORECAST PERIOD

TABLE 41 ALKALINE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 42 ALKALINE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 43 ALKALINE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 44 ALKALINE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

8.3 ACIDIC

8.3.1 UNIQUE COMBINATION OF EXCELLENT PROPERTIES TO DRIVE DEMAND FOR ACIDIC CLEANERS

FIGURE 44 NORTH AMERICA TO BE SECOND-LARGEST MARKET IN ACIDIC SEGMENT DURING FORECAST PERIOD

TABLE 45 ACIDIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 46 ACIDIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 47 ACIDIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 48 ACIDIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

8.4 NEUTRAL

8.4.1 INCREASING DEMAND FOR ENVIRONMENT-FRIENDLY SOLUTIONS TO DRIVE MARKET

FIGURE 45 ASIA PACIFIC TO BE LARGEST MARKET IN NEUTRAL SEGMENT DURING FORECAST PERIOD

TABLE 49 NEUTRAL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 50 NEUTRAL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 51 NEUTRAL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 52 NEUTRAL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

9 AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS

9.1 INTRODUCTION

FIGURE 46 SURFACTANTS TO BE LARGEST SEGMENT DURING FORECAST PERIOD

TABLE 53 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)

TABLE 54 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)

TABLE 55 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)

TABLE 56 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (USD MILLION)

9.2 BUILDERS

9.2.1 ENHANCED CLEANING EFFICIENCY TO PROPEL DEMAND

FIGURE 47 ASIA PACIFIC TO BE LARGEST AQUEOUS-BASED METAL CLEANERS MARKET IN BUILDERS SEGMENT

TABLE 57 BUILDERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 58 BUILDERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 59 BUILDERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 60 BUILDERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

9.3 SEQUESTRANTS & INHIBITORS

9.3.1 HIGH PERFORMANCE IN CLEANING OXIDE LAYERS TO DRIVE MARKET

FIGURE 48 NORTH AMERICA TO BE SECOND-LARGEST MARKET IN SEQUESTRANTS & INHIBITORS SEGMENT DURING FORECAST PERIOD

TABLE 61 SEQUESTRANTS & INHIBITORS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 62 SEQUESTRANTS & INHIBITORS: AQUEOUS-BASED METAL CLEANERS

MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 63 SEQUESTRANTS & INHIBITORS: AQUEOUS-BASED METAL CLEANERS
MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 64 SEQUESTRANTS & INHIBITORS: AQUEOUS-BASED METAL CLEANERS
MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

9.4 SURFACTANTS

9.4.1 WIDE USE IN GENERAL CLEANERS TO DRIVE MARKET

FIGURE 49 ASIA PACIFIC TO BE LARGEST MARKET FOR AQUEOUS-BASED
METAL CLEANERS IN SURFACTANTS SEGMENT DURING FORECAST PERIOD

TABLE 65 SURFACTANTS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,
BY REGION, 2017–2020 (KILOTON)

TABLE 66 SURFACTANTS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,
BY REGION, 2021–2027 (KILOTON)

TABLE 67 SURFACTANTS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,
BY REGION, 2017–2020 (USD MILLION)

TABLE 68 SURFACTANTS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,
BY REGION, 2021–2027 (USD MILLION)

9.5 OTHERS

FIGURE 50 ASIA PACIFIC TO BE LARGEST MARKET FOR AQUEOUS-BASED
METAL CLEANERS IN OTHERS SEGMENT DURING FORECAST PERIOD

TABLE 69 OTHERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY
REGION, 2017–2020 (KILOTON)

TABLE 70 OTHERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY
REGION, 2021–2027 (KILOTON)

TABLE 71 OTHERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY
REGION, 2017–2020 (USD MILLION)

TABLE 72 OTHERS: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY
REGION, 2021–2027 (USD MILLION)

10 AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY

10.1 INTRODUCTION

FIGURE 51 MANUFACTURING TO BE LARGEST END USER OF AQUEOUS-BASED
METAL CLEANERS

TABLE 73 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE
INDUSTRY, 2017–2020 (KILOTON)

TABLE 74 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE
INDUSTRY, 2021–2027 (KILOTON)

TABLE 75 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE

INDUSTRY, 2017–2020 (USD MILLION)

TABLE 76 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

10.2 MANUFACTURING

10.2.1 DEMAND FOR SAFER ALTERNATIVE AND PRECISE CLEANING TO BOOST MARKET

TABLE 77 AQUEOUS-BASED METAL CLEANERS MARKET IN MANUFACTURING, BY REGION, 2017–2020 (KILOTON)

TABLE 78 AQUEOUS-BASED METAL CLEANERS MARKET IN MANUFACTURING, BY REGION, 2021–2027 (KILOTON)

TABLE 79 AQUEOUS-BASED METAL CLEANERS MARKET IN MANUFACTURING, BY REGION, 2017–2020 (USD MILLION)

TABLE 80 AQUEOUS-BASED METAL CLEANERS MARKET IN MANUFACTURING, BY REGION, 2021–2027 (USD MILLION)

10.3 AUTOMOTIVE & AEROSPACE

10.3.1 GREEN TECHNOLOGIES TO PROPEL DEMAND FOR AQUEOUS-BASED CLEANERS IN AUTOMOTIVE & AEROSPACE

TABLE 81 AQUEOUS-BASED METAL CLEANERS MARKET IN AUTOMOTIVE & AEROSPACE, BY REGION, 2017–2020 (KILOTON)

TABLE 82 AQUEOUS-BASED METAL CLEANERS MARKET IN AUTOMOTIVE & AEROSPACE, BY REGION, 2021–2027 (KILOTON)

TABLE 83 AQUEOUS-BASED METAL CLEANERS MARKET IN AUTOMOTIVE & AEROSPACE, BY REGION, 2017–2020 (USD MILLION)

TABLE 84 AQUEOUS-BASED METAL CLEANERS MARKET IN AUTOMOTIVE & AEROSPACE, BY REGION, 2021–2027 (USD MILLION)

10.4 HEALTHCARE

10.4.1 INCREASING HEALTHCARE EXPENDITURE TO CREATE FAVORABLE CONDITIONS FOR MARKET GROWTH

TABLE 85 AQUEOUS-BASED METAL CLEANERS MARKET IN HEALTHCARE, BY REGION, 2017–2020 (KILOTON)

TABLE 86 AQUEOUS-BASED METAL CLEANERS MARKET IN HEALTHCARE, BY REGION, 2021–2027 (KILOTON)

TABLE 87 AQUEOUS-BASED METAL CLEANERS MARKET IN HEALTHCARE, BY REGION, 2017–2020 (USD MILLION)

TABLE 88 AQUEOUS-BASED METAL CLEANERS MARKET IN HEALTHCARE, BY REGION, 2021–2027 (USD MILLION)

10.5 OTHERS

10.5.1 INCREASED DEMAND FROM SEMICONDUCTOR INDUSTRY TO DRIVE MARKET

TABLE 89 AQUEOUS-BASED METAL CLEANERS MARKET IN OTHER END-USE INDUSTRIES, BY REGION, 2017–2020 (KILOTON)

TABLE 90 AQUEOUS-BASED METAL CLEANERS MARKET IN OTHER END-USE INDUSTRIES, BY REGION, 2021–2027 (KILOTON)

TABLE 91 AQUEOUS-BASED METAL CLEANERS MARKET IN OTHER END-USE INDUSTRIES, BY REGION, 2017–2020 (USD MILLION)

TABLE 92 AQUEOUS-BASED METAL CLEANERS MARKET IN OTHER END-USE INDUSTRIES, BY REGION, 2021–2027 (USD MILLION)

11 AQUEOUS-BASED METAL CLEANERS MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 52 ASIA PACIFIC TO BE FASTEST-GROWING AQUEOUS-BASED METAL CLEANERS MARKET DURING FORECAST PERIOD

TABLE 93 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 94 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 95 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 96 AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

11.2 IMPACT OF RECESSION

11.3 ASIA PACIFIC

FIGURE 53 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SNAPSHOT

11.3.1 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY

TABLE 97 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)

TABLE 98 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)

TABLE 99 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 100 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)

11.3.2 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE

TABLE 101 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,

BY CHEMISTRY TYPE, 2017–2020 (KILOTON)

TABLE 102 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)

TABLE 103 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)

TABLE 104 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)

11.3.3 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS

TABLE 105 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)

TABLE 106 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)

TABLE 107 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)

TABLE 108 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (USD MILLION)

11.3.4 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY

TABLE 109 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 110 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 111 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 112 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.3.5 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET, BY COUNTRY

TABLE 113 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 114 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 115 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 116 ASIA PACIFIC: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.3.5.1 China

11.3.5.1.1 High automotive production to drive market

TABLE 117 CHINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 118 CHINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 119 CHINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 120 CHINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.3.5.2 Japan

11.3.5.2.1 High demand from automotive sector to drive aqueous-based metal cleaners market

TABLE 121 JAPAN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 122 JAPAN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 123 JAPAN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 124 JAPAN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.3.5.3 India

11.3.5.3.1 Growing population and improving economic conditions to propel market

TABLE 125 INDIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 126 INDIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 127 INDIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 128 INDIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.3.5.4 South Korea

11.3.5.4.1 Increasing demand for passenger and commercial vehicles to boost demand

TABLE 129 SOUTH KOREA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 130 SOUTH KOREA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 131 SOUTH KOREA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 132 SOUTH KOREA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE,

BY END-USE INDUSTRY, 2021–2027 (USD MILLION)**11.4 NORTH AMERICA****FIGURE 54 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SNAPSHOT****11.4.1 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY****TABLE 133 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)****TABLE 134 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)****TABLE 135 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)****TABLE 136 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)****11.4.2 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE****TABLE 137 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (KILOTON)****TABLE 138 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)****TABLE 139 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)****TABLE 140 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)****11.4.3 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS****TABLE 141 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)****TABLE 142 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)****TABLE 143 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)****TABLE 144 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (USD MILLION)****11.4.4 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY****TABLE 145 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)****TABLE 146 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET**

SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 147 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 148 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.4.5 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY COUNTRY

TABLE 149 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 150 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 151 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 152 NORTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.4.5.1 US

11.4.5.1.1 Innovations in automotive industry to boost market

TABLE 153 US: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 154 US: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 155 US: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 156 US: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.4.5.2 Canada

11.4.5.2.1 Rising demand from automotive, healthcare, and manufacturing industries to boost market

TABLE 157 CANADA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 158 CANADA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 159 CANADA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 160 CANADA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.4.5.3 Mexico

11.4.5.3.1 Rising industrialization and presence of automotive manufacturing plants of leading players to drive market

TABLE 161 MEXICO: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 162 MEXICO: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 163 MEXICO: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 164 MEXICO: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5 EUROPE

FIGURE 55 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SNAPSHOT

11.5.1 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY

TABLE 165 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)

TABLE 166 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)

TABLE 167 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 168 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)

11.5.2 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE

TABLE 169 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (KILOTON)

TABLE 170 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)

TABLE 171 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)

TABLE 172 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)

11.5.3 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS

TABLE 173 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)

TABLE 174 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)

TABLE 175 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)

TABLE 176 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY

CLEANING CHEMICALS, 2021–2027 (USD MILLION)

11.5.4 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY

TABLE 177 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 178 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 179 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 180 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET, BY COUNTRY

TABLE 181 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 182 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 183 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 184 EUROPE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.5.5.1 Germany

11.5.5.1.1 Technological advancements and established automotive sector to fuel market

TABLE 185 GERMANY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 186 GERMANY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 187 GERMANY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 188 GERMANY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5.2 UK

11.5.5.2.1 Growth in autonomous and connected technologies to boost market

TABLE 189 UK: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 190 UK: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 191 UK: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 192 UK: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5.3 France

11.5.5.3.1 Domestic automotive industry players and demand for eco-friendly materials to drive market

TABLE 193 FRANCE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 194 FRANCE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 195 FRANCE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 196 FRANCE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5.4 Italy

11.5.5.4.1 Government initiatives to develop industrial sector to propel market

TABLE 197 ITALY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 198 ITALY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 199 ITALY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 200 ITALY: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5.5 Russia

11.5.5.5.1 Rising demand from oil & gas and refinery industries to drive market

TABLE 201 RUSSIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 202 RUSSIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 203 RUSSIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 204 RUSSIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.5.5.6 Spain

11.5.5.6.1 Automotive and chemical industries to fuel consumption of aqueous-based metal cleaners

TABLE 205 SPAIN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 206 SPAIN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-

USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 207 SPAIN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 208 SPAIN: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.6 MIDDLE EAST & AFRICA

11.6.1 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY TECHNOLOGY

TABLE 209 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)

TABLE 210 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)

TABLE 211 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 212 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)

11.6.2 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE

TABLE 213 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (KILOTON)

TABLE 214 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)

TABLE 215 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)

TABLE 216 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)

11.6.3 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS

TABLE 217 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)

TABLE 218 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)

TABLE 219 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)

TABLE 220 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (USD MILLION)

11.6.4 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY

TABLE 221 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS

MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 222 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS

MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 223 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS

MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 224 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS

MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.6.5 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY COUNTRY

TABLE 225 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 226 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 227 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 228 MIDDLE EAST & AFRICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.6.5.1 Saudi Arabia

11.6.5.1.1 Increasing demand from manufacturing sector to drive demand

TABLE 229 SAUDI ARABIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 230 SAUDI ARABIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 231 SAUDI ARABIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 232 SAUDI ARABIA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.6.5.2 UAE

11.6.5.2.1 Manufacturing industry to spur market

TABLE 233 UAE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 234 UAE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 235 UAE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 236 UAE: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.7 SOUTH AMERICA

11.7.1 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY

TECHNOLOGY

TABLE 237 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (KILOTON)

TABLE 238 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (KILOTON)

TABLE 239 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 240 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY TECHNOLOGY, 2021–2027 (USD MILLION)

11.7.2 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CHEMISTRY TYPE

TABLE 241 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (KILOTON)

TABLE 242 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (KILOTON)

TABLE 243 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2017–2020 (USD MILLION)

TABLE 244 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CHEMISTRY TYPE, 2021–2027 (USD MILLION)

11.7.3 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY CLEANING CHEMICALS

TABLE 245 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (KILOTON)

TABLE 246 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (KILOTON)

TABLE 247 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2017–2020 (USD MILLION)

TABLE 248 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY CLEANING CHEMICALS, 2021–2027 (USD MILLION)

11.7.4 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY END-USE INDUSTRY

TABLE 249 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 250 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 251 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 252 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.7.5 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET, BY COUNTRY

TABLE 253 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 254 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 255 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 256 SOUTH AMERICA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.7.5.1 Brazil

11.7.5.1.1 Presence of manufacturing units and industrial growth to drive demand

TABLE 257 BRAZIL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 258 BRAZIL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 259 BRAZIL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 260 BRAZIL: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

11.7.5.2 Argentina

11.7.5.2.1 Rising vehicle sales and cheap labor to drive market

TABLE 261 ARGENTINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 262 ARGENTINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 263 ARGENTINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 264 ARGENTINA: AQUEOUS-BASED METAL CLEANERS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 INTRODUCTION

12.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 265 OVERVIEW OF STRATEGIES ADOPTED BY KEY MANUFACTURERS

12.3 MARKET SHARE ANALYSIS

12.3.1 RANKING OF KEY MARKET PLAYERS, 2021

FIGURE 56 RANKING OF TOP FIVE PLAYERS IN AQUEOUS-BASED METAL

CLEANERS MARKET, 2021

12.3.2 MARKET SHARE OF KEY PLAYERS

TABLE 266 AQUEOUS-BASED METAL CLEANERS MARKET: DEGREE OF COMPETITION

FIGURE 57 BASF SE LED AQUEOUS-BASED METAL CLEANERS MARKET IN 2021

12.3.2.1 BASF SE

12.3.2.2 Dow Inc.

12.3.2.3 Stepan Company

12.3.2.4 Evonik Industries AG

12.3.2.5 Eastman Chemical Company

12.3.3 REVENUE ANALYSIS OF TOP FIVE PLAYERS

FIGURE 58 REVENUE ANALYSIS OF KEY COMPANIES IN LAST 5 YEARS

12.4 COMPANY PRODUCT FOOTPRINT ANALYSIS

FIGURE 59 AQUEOUS-BASED METAL CLEANERS MARKET: COMPANY FOOTPRINT

TABLE 267 AQUEOUS-BASED METAL CLEANERS MARKET: CLEANING CHEMICALS FOOTPRINT

TABLE 268 AQUEOUS-BASED METAL CLEANERS MARKET: END-USE INDUSTRY FOOTPRINT

TABLE 269 AQUEOUS-BASED METAL CLEANERS MARKET: COMPANY REGIONAL FOOTPRINT

12.5 COMPANY EVALUATION QUADRANT (TIER 1)

12.5.1 STARS

12.5.2 EMERGING LEADERS

12.5.3 PERVASIVE COMPANIES

12.5.4 PARTICIPANTS

FIGURE 60 COMPANY EVALUATION QUADRANT FOR AQUEOUS-BASED METAL CLEANERS MARKET (TIER 1)

12.6 COMPETITIVE BENCHMARKING

TABLE 270 AQUEOUS-BASED METAL CLEANERS MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 271 AQUEOUS-BASED METAL CLEANERS MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

12.7 START-UPS/SMES EVALUATION QUADRANT

12.7.1 RESPONSIVE COMPANIES

12.7.2 PROGRESSIVE COMPANIES

12.7.3 DYNAMIC COMPANIES

12.7.4 STARTING BLOCKS

FIGURE 61 START-UPS/SME EVALUATION QUADRANT FOR AQUEOUS-BASED

METAL CLEANER MARKET

12.8 COMPETITIVE SCENARIOS

12.8.1 DEALS

TABLE 272 AQUEOUS-BASED METAL CLEANERS MARKET: DEALS (2018–2022)

12.8.2 PRODUCT LAUNCHES

TABLE 273 AQUEOUS-BASED METAL CLEANERS MARKET: PRODUCT LAUNCHES (2018–2022)

12.8.3 OTHER DEVELOPMENTS

TABLE 274 AQUEOUS-BASED METAL CLEANERS MARKET: EXPANSIONS, INVESTMENTS, AND INNOVATIONS (2018–2022)

13 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, Deals, Other developments, Key strengths, Current strategies, Strategic choices, Weaknesses and competitive threats) *

13.1 MAJOR PLAYERS

13.1.1 BASF SE

FIGURE 62 BASF SE: COMPANY SNAPSHOT

TABLE 275 BASF SE: BUSINESS OVERVIEW

13.1.2 EVONIK INDUSTRIES AG

FIGURE 63 EVONIK INDUSTRIES AG: COMPANY SNAPSHOT

TABLE 276 EVONIK INDUSTRIES AG: BUSINESS OVERVIEW

13.1.3 STEPAN COMPANY

FIGURE 64 STEPAN COMPANY: COMPANY SNAPSHOT

TABLE 277 STEPAN COMPANY: BUSINESS OVERVIEW

13.1.4 EASTMAN CHEMICAL COMPANY

FIGURE 65 EASTMAN CHEMICAL COMPANY: COMPANY SNAPSHOT

TABLE 278 EASTMAN CHEMICAL COMPANY: BUSINESS OVERVIEW

13.1.5 DOW INC.

FIGURE 66 DOW INC.: COMPANY SNAPSHOT

TABLE 279 DOW INC.: BUSINESS OVERVIEW

13.1.6 THE CHEMOURS COMPANY

FIGURE 67 THE CHEMOURS COMPANY: COMPANY SNAPSHOT

TABLE 280 THE CHEMOURS COMPANY: BUSINESS OVERVIEW

13.1.7 NOURYON

TABLE 281 NOURYON: BUSINESS OVERVIEW

13.1.8 CLARIANT AG

FIGURE 68 CLARIANT AG: COMPANY SNAPSHOT

TABLE 282 CLARIANT AG: COMPANY OVERVIEW

13.1.9 INDORAMA VENTURES PUBLIC COMPANY LIMITED

FIGURE 69 INDORAMA VENTURES PUBLIC COMPANY LIMITED: COMPANY SNAPSHOT

TABLE 283 INDORAMA VENTURES PUBLIC COMPANY LIMITED: COMPANY OVERVIEW

13.1.10 ASHLAND GLOBAL HOLDINGS INC.

FIGURE 70 ASHLAND GLOBAL HOLDINGS INC.: COMPANY SNAPSHOT

TABLE 284 ASHLAND GLOBAL HOLDINGS INC.: COMPANY OVERVIEW

13.2 OTHER KEY MARKET PLAYERS

13.2.1 KYZEN CORPORATION

TABLE 285 KYZEN CORPORATION: BUSINESS OVERVIEW

13.2.2 ADEKA CORPORATION

TABLE 286 ADEKA CORPORATION: BUSINESS OVERVIEW

13.2.3 AARTI INDUSTRIES LIMITED

TABLE 287 AARTI INDUSTRIES LIMITED: BUSINESS OVERVIEW

13.2.4 COLONIAL CHEMICAL

TABLE 288 COLONIAL CHEMICAL: BUSINESS OVERVIEW

13.2.5 GALAXY SURFACTANTS

TABLE 289 GALAXY SURFACTANTS: BUSINESS OVERVIEW

13.2.6 INNOSPEC

TABLE 290 INNOSPEC: BUSINESS OVERVIEW

13.2.7 LANKEM LTD

TABLE 291 LANKEM LTD: BUSINESS OVERVIEW

13.2.8 DST-CHEMICALS

TABLE 292 DST-CHEMICALS: BUSINESS OVERVIEW

13.2.9 PCC GROUP

TABLE 293 PCC GROUP: BUSINESS OVERVIEW

13.2.10 PILOT CHEMICAL COMPANY

TABLE 294 PILOT CHEMICAL COMPANY: BUSINESS OVERVIEW

13.2.11 SASOL

TABLE 295 SASOL: BUSINESS OVERVIEW

13.2.12 UNGER FABRIKKER AS

TABLE 296 UNGER FABRIKKER AS: BUSINESS OVERVIEW

13.2.13 ELLES OBERFL?CHEN SYSTEME GMBH

TABLE 297 ELLES OBERFL?CHEN SYSTEME GMBH: BUSINESS OVERVIEW

13.2.14 ENVIROSERVE CHEMICALS INC.

TABLE 298 ENVIROSERVE CHEMICALS INC.: BUSINESS OVERVIEW

13.2.15 TOKYO CHEMICAL INDUSTRY CO.

TABLE 299 TOKYO CHEMICAL INDUSTRY CO., LTD.: BUSINESS OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, Deals, Other developments, Key strengths, Current strategies, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

14 ADJACENT & RELATED MARKETS**14.1 INTRODUCTION****14.2 LIMITATIONS****14.3 INDUSTRIAL CLEANING CHEMICALS MARKET****14.3.1 MARKET DEFINITION****14.3.2 MARKET OVERVIEW****14.3.3 INDUSTRIAL CLEANING CHEMICALS, BY REGION****TABLE 300 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2019 (USD MILLION)****TABLE 301 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2020–2026 (USD MILLION)****TABLE 302 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2019 (KILOTON)****TABLE 303 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2020–2026 (KILOTON)****14.3.3.1 Asia Pacific****TABLE 304 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)****TABLE 305 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)****TABLE 306 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)****TABLE 307 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)****14.3.3.2 North America****TABLE 308 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)****TABLE 309 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)****TABLE 310 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)****TABLE 311 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)**

14.3.3.3 Western Europe

TABLE 312 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 313 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 314 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 315 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.4 Central & Eastern Europe

TABLE 316 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 317 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 318 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 319 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.5 South America

TABLE 320 SOUTH AMERICA: SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 321 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 322 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 323 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.6 Middle East & Africa

TABLE 324 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 325 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 326 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 327 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.3 CUSTOMIZATION OPTIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

I would like to order

Product name: Aqueous-based Metal Cleaners Market by Cleaning Chemicals (Builders, Sequestrants & Inhibitors, Surfactants), End-use Industries (Manufacturing, Automotive & Aerospace, Healthcare), Chemistry Type, Technology and Region- Global Forecast to 2027

Product link: <https://marketpublishers.com/r/A3BF10A1A47CEN.html>

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

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A3BF10A1A47CEN.html>

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

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

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