

## Report Information

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# Calcined Bauxite Market Research Report—Global Forecast till 2030

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## Description:

## Calcined Bauxite Market Overview

The global calcined bauxite market is projected to register a CAGR of over 5.15% to reach around USD 2,159 million by the end of 2028.

Calcined bauxite is produced by sintering high alumina bauxite at temperatures between 1,600 to 1,800°C. The calcination process removes moisture and impurities from bauxite and helps in increasing the alumina content, grain hardness, and refractoriness of the bauxite ore. This results in calcined bauxite being an ideal material used in the production of various types of refractory materials. This is attributed to its ability to withstand extremely high temperatures and corrosive environments prevailing inside the blast furnaces. On the other hand, its use in the production of a variety of abrasives owing to its grain hardness and angular shape.

The prime factor driving the growth of the global calcined bauxite market is its extensive use for brown fused alumina, further used for the production of refractory materials. Calcined bauxite, anthracite, iron filings, and additives are mixed in specific proportions and heated together at about 2,250°C temperature to produce brown fused alumina. Brown fused alumina is an extremely hard material with high bulk density and a nine on the Mohs scale of mineral hardness. The growing use of high alumina refractories in the steel production process is likely to fuel the calcined bauxite market over the forecast period. Moreover, extensive use of brown fused alumina in the production of abrasives is projected to provide an additional boost to the product demand.

The consistent particle size and angular shape of brown fused alumina make it an ideal choice of raw material for the production of various types of abrasives such as grinding wheels, sandpaper, and blasting media. Thus, growing demand for abrasives is anticipated to positively impact the demand for brown fused alumina and calcined bauxite over the forecast period. In addition, brown fused alumina is widely used to produce a wide range of refractory materials because of its corrosion and thermal resistance. Brown fused alumina refractories are highly preferred in the steelmaking industry to line blast furnaces. These refractories provide thermal protection to furnace structures to help maintain their structural integrity at extremely high temperatures.

Another key driver of the global calcined bauxite market is its use in the production of calcium aluminate cement. Calcium aluminate cement is a special type of hydraulic cement produced by sintering high-purity limestone and calcined bauxite in a rotary kiln. Depending on the alumina and iron oxide contents, calcium aluminate cement is categorized into low purity, intermediate purity, and high purity cement. Unlike Portland cement, calcium aluminate cement withstands extremely high temperatures and corrosive environments. The concrete made using calcium aluminate cement exhibits significantly lower porosity and superior chemical resistance and abrasion properties. Thus, this concrete is witnessing high adoption in industrial flooring applications. Moreover, calcium aluminate cements mortars are also used to line the steel pipes that carry municipal sewage and industrial wastewaters.

However, environmental concerns associated with bauxite mining activities act as a restraint for market growth. For instance, in major countries, bauxite mining activities are allowed only after conducting detailed environmental impact studies and assessing the local pollution mitigation initiatives undertaken by the mining firms.

## COVID Impact Analysis

Major economies across Europe and North America were severely affected by the outbreak of the COVID-19 pandemic and witnessed a rapid increase in death toll during the first and second waves. Europe witnessed a repeated implementation of lockdown strategies to control the virus spread and safeguard human lives. Restrictions on people's movements led to a drastic drop in demand for discretionary consumption articles such as automobiles. This contributed to a significant decrease in demand for abrasives and refractories and, subsequently, the calcined bauxite market during the pandemic. However, the rapid pace of vaccination and various monetary measures undertaken to reboot the economic activities are expected to normalize the demand for calcined bauxite in 2021.

Major calcined bauxite manufacturers in North America and Europe heavily depend on China, India, and Guinea for bauxite imports. However, disruption in shipping networks created an acute shortage of bauxite in the market, increasing input costs for calcined bauxite manufacturers. China and Guyana are two of the largest exporters of calcined bauxite in the world. The outbreak of the COVID-19 pandemic and subsequent implementation of lockdown strategies in these countries affected the logistics networks and, thereby, the supply of calcined bauxite to the world. Moreover, in Europe and North America, the severe infection rates limited the implementation of stringent sanitary and quarantine rules to check the virus spread.

## Supply Chain Analysis

The supply chain analysis evaluates every stage and step taken by stakeholders involved throughout the production and distribution of calcined bauxite. The supply chain includes raw materials and suppliers, calcined bauxite producers, distribution channels, and end-use industries.

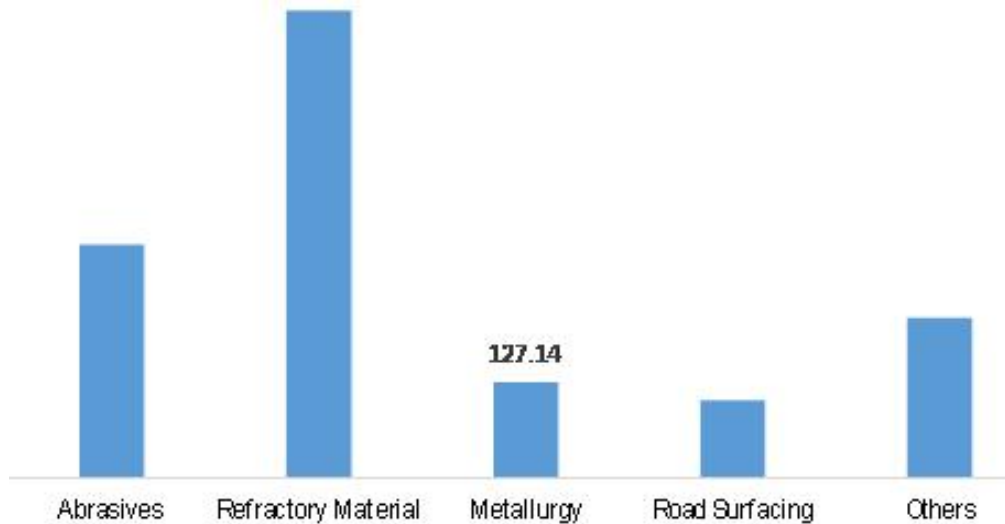
Bauxite is the primary raw material employed in the production of brown calcined bauxite. The distribution channel in this market comprises distributors, wholesalers, and e-commerce merchants. Some major bauxite and coal mining companies include BHP Billiton, Alcoa, Aluminium Corporation of China, Vale, Rio Tinto, Coal India Limited, ShenHua Group, SUEK, and National Aluminium Company (Nalco).

### Segmentation

The global calcined bauxite market has been segmented on the basis of purity, application, and region.

By purity, the calcined bauxite market has been segmented into high purity (>85%) and low purity (<85%). The high purity (>85%) segment dominated the market with a 78.06% share of the global calcined bauxite market in 2020 and is expected to register a CAGR of 5.46% during the forecast period.

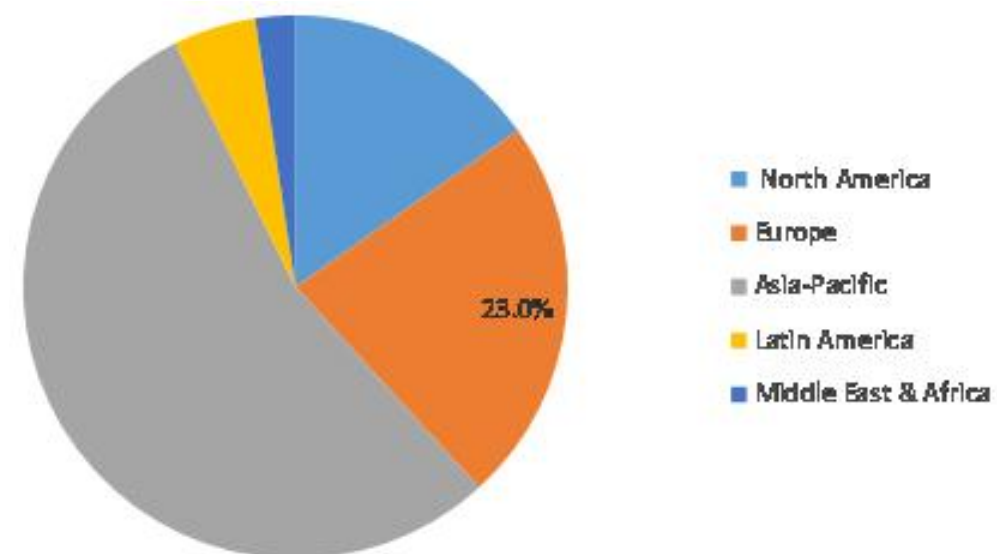
**Global Calcined Bauxite Market Revenue, by Application, 2020 (USD Million)**



Sources: MRFR Analysis

On the basis of application, the global calcined bauxite market is segmented into abrasives, refractory materials, metallurgy, road surfacing, and others. Among these, the metallurgy segment was valued at USD 127.14 million in 2020 and is expected to grow significantly during the assessment period.

**Global Calcined Bauxite Market Share, by Region, 2020 (%)**



Sources: MRFR Analysis

### Regional Analysis

The global calcined Bauxite Market has been studied across Asia-Pacific, North America, Europe, Latin America, and the Middle East & Africa. Asia-Pacific emerged as the leading and fastest-growing segment on account of the largest bauxite ore reserves in countries such as India, China, and Australia. In 2019, Australia remained the largest producer of bauxite at 105 metric tonnes, followed by China and India. In addition to this, lower labor costs coupled with higher manpower in the Asia-Pacific region promote market growth. Widespread use of refractories in end-use industries such as iron and steel, cement & ceramics, non-ferrous metals, and others is a major driver of the regional market growth. Growing infrastructure in emerging countries such as India, Thailand, and South Korea coupled with the rising demand for refractories from the iron & steel industry is the prime factor driving the market in upcoming years.

North America is expected to have a significant share in the global market owing to the high demand for metal abrasives and alumina products. Growing automotive, metal fabrication, machinery, electronics, electrical, medical, and construction industries in the US contribute to the growth of the abrasives market. In the automotive industry, abrasives are used for various applications, such as coarse and lacquer sanding, which will drive the demand for calcined bauxite in abrasives production.

### Key Players

Great Lakes Minerals, LLC(US), LKAB (Sweden), EK-COMPANY AG (Germany), Bosai Group (China), First Bauxite LLC (US), Boud Minerals Limited (UK), Saurashtra Calcine Bauxite & Allied Industries Ltd (India), and Sinocean Industrial Limited (China) are the prominent players operating in the global calcined bauxite market.

The global market remains moderately fragmented, with LKAB, Bosai Group, SCABAL, and Sinocean as leading players accounting for a larger share of the global market. This is because these companies have a large manufacturing base, a global sales network, a vast product portfolio, and a brand image.

### Market Segmentation

#### Global Calcined Bauxite Market, by Purity

- High Purity
- Low Purity

#### Global Calcined Bauxite Market, by Application

- Abrasives
- Refractory Materials
- Metallurgy
- Road Surfacing
- Others

#### Global Calcined Bauxite Market, by Region

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
  - Spain
  - Netherlands
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia & New Zealand
  - Rest of Asia-Pacific
- Latin America
  - Mexico
  - Brazil
  - Argentina
  - Rest of Latin America
- Middle East & Africa

- Turkey
- GCC Countries
- South Africa
- Rest of the Middle East& Africa

#### Available Additional Customizations

- Customer Analysis of Major Consumers
- Additional Company Profiles
- Trade Data (Imports and Exports)

#### Intended Audience

- Calcined bauxite manufacturers
- Suppliers and traders of calcined bauxite and related products
- Government, associations, and industrial associations
- Investors and trade experts
- Consulting in chemical experts

#### Table of Content:

#### Contents

TABLE OF CONTENTS	
1 EXECUTIVE SUMMARY	15
1.1 MARKET ATTRACTIVENESS ANALYSIS	17
1.1.1 GLOBAL CALCINED BAUXITE MARKET, BY PURITY	18
1.1.2 GLOBAL CALCINED BAUXITE MARKET, BY APPLICATION	19
1.1.3 GLOBAL CALCINED BAUXITE MARKET, BY REGION	20
2 MARKET INTRODUCTION	21
2.1 DEFINITION	21
2.2 SCOPE OF STUDY	21
2.3 MARKET STRUCTURE	21
3 RESEARCH METHODOLOGY	22
3.1 RESEARCH PROCESS	22
3.2 PRIMARY RESEARCH	23
3.3 SECONDARY RESEARCH	24
3.4 MARKET SIZE ESTIMATION	24
3.5 TOP-DOWN AND BOTTOM-UP APPROACH	25
3.6 FORECAST MODEL	26
3.7 LIST OF ASSUMPTIONS & LIMITATIONS	27
4 MARKET DYNAMICS	28
4.1 INTRODUCTION	28
4.2 DRIVERS	29
4.2.1 GROWING DEMAND FOR BROWN FUSED ALUMINA	29
4.2.2 INCREASING DEMAND FOR CALCIUM ALUMINATE CEMENT	30
4.2.3 DRIVERS IMPACT ANALYSIS	31
4.3 RESTRAINTS	31
4.3.1 ENVIRONMENTAL CONCERNS ASSOCIATED WITH BAUXITE MINING ACTIVITIES	31
4.3.2 RESTRAINTS IMPACT ANALYSIS	32
4.4 OPPORTUNITIES	32
4.4.1 GROWING USE OF RENEWABLE ENERGY IN CALCINATION PROCESS	32
5 MARKET FACTOR ANALYSIS	33
5.1 SUPPLY CHAIN ANALYSIS	33
5.1.1 RAW MATERIALS SUPPLIERS	34
5.1.2 CALCINED BAUXITE MANUFACTURERS	34
5.1.3 DISTRIBUTION & SALES CHANNELS	34
5.1.4 END-USE INDUSTRIES	34
5.1.4.1 LIST OF POTENTIAL END-USERS	35
5.2 PORTER'S FIVE FORCES MODEL	37
5.2.1 THREAT OF NEW ENTRANTS	37
5.2.2 BARGAINING POWER OF SUPPLIERS	38
5.2.3 THREAT OF SUBSTITUTES	38
5.2.4 BARGAINING POWER OF BUYERS	38
5.2.5 INTENSITY OF RIVALRY	38
5.3 PRICING OVERVIEW, BY REGION (USD/TON)	38
5.4 AVERAGE VALUE OF COUNTRY IMPORTS/EXPORTS OF BAUXITE (USD/TON)	39
5.5 IMPACT OF COVID-19 OUTBREAK ON THE GLOBAL CALCINED BAUXITE MARKET	39
5.5.1 IMPACT ON SUPPLY CHAIN	39
5.5.1.1 RAW MATERIAL SUPPLY	39
5.5.1.2 MANUFACTURING	40
5.5.1.3 IMPACT ON DISTRIBUTION & SALES CHANNEL	40
5.5.1.4 IMPACT ON END-USE INDUSTRY DEMAND	40
5.5.1.4.1 AUTOMOTIVE	40
5.5.1.4.2 BUILDING & CONSTRUCTION	40
5.5.1.4.3 OIL & GAS	40
5.5.1.4.4 AEROSPACE & DEFENSE	41

5.5.1.4.5 MARINE	41
5.5.1.4.6 POWER GENERATION	41
5.5.2 MAJOR GOVERNMENT POLICIES TO COUNTER IMPACT OF COVID-19	41
6 GLOBAL CALCINED BAUXITE MARKET, BY PURITY	43
6.1 INTRODUCTION	43
6.2 HIGH PURITY (>85%)	45
6.3 LOW PURITY (<85%)	46
7 GLOBAL CALCINED BAUXITE MARKET, BY APPLICATION	47
7.1 INTRODUCTION	47
7.2 ABRASIVES	49
7.3 REFRACTORY MATERIALS	50
7.4 METALLURGY	51
7.5 ROAD SURFACING	52
7.6 OTHERS	53
8 GLOBAL CALCINED BAUXITE MARKET, BY REGION	54
8.1 INTRODUCTION	54
8.2 NORTH AMERICA	57
8.2.1 US	59
8.2.2 CANADA	60
8.3 EUROPE	62
8.3.1 GERMANY	64
8.3.2 RUSSIA	66
8.3.3 UK	67
8.3.4 ITALY	69
8.3.5 FRANCE	70
8.3.6 SPAIN	72
8.3.7 NETHERLANDS	73
8.3.8 REST OF EUROPE	75
8.4 ASIA-PACIFIC	77
8.4.1 CHINA	79
8.4.2 JAPAN	81
8.4.3 INDIA	82
8.4.4 SOUTH KOREA	84
8.4.5 AUSTRALIA & NEW ZEALAND	85
8.4.6 REST OF ASIA-PACIFIC	87
8.5 LATIN AMERICA	89
8.5.1 BRAZIL	91
8.5.2 MEXICO	92
8.5.3 ARGENTINA	94
8.5.4 REST OF LATIN AMERICA	95
8.6 MIDDLE EAST & AFRICA	97
8.6.1 TURKEY	99
8.6.2 GCC COUNTRIES	100
8.6.3 SOUTH AFRICA	102
8.6.4 REST OF THE MIDDLE EAST & AFRICA	103
9 COMPETITIVE LANDSCAPE	105
9.1 INTRODUCTION	105
9.2 MARKET STRATEGY ANALYSIS	105
9.3 KEY DEVELOPMENTS & GROWTH STRATEGIES	105
9.4 COMPETITIVE BENCHMARKING	106
10 COMPANY PROFILES	107
10.1 GREAT LAKES MINERALS, LLC	107
10.1.1 COMPANY OVERVIEW	107
10.1.2 FINANCIAL OVERVIEW	107
10.1.3 PRODUCTS OFFERED	107
10.1.4 KEY DEVELOPMENTS	107
10.1.5 SWOT ANALYSIS	108
10.1.6 KEY STRATEGIES	108
10.2 LKAB	109
10.2.1 COMPANY OVERVIEW	109
10.2.2 FINANCIAL OVERVIEW	110
10.2.3 PRODUCTS OFFERED	110
10.2.4 KEY DEVELOPMENTS	110
10.2.5 SWOT ANALYSIS	111
10.2.6 KEY STRATEGIES	111
10.3 EK-COMPANY AG	112
10.3.1 COMPANY OVERVIEW	112
10.3.2 FINANCIAL OVERVIEW	112
10.3.3 PRODUCTS OFFERED	112
10.3.4 KEY DEVELOPMENT	112
10.3.5 SWOT ANALYSIS	113
10.3.6 KEY STRATEGIES	113
10.4 BOSAI GROUP	114
10.4.1 COMPANY OVERVIEW	114
10.4.2 FINANCIAL OVERVIEW	114
10.4.3 PRODUCTS OFFERED	114
10.4.4 KEY DEVELOPMENTS	114
10.4.5 SWOT ANALYSIS	115
10.4.6 KEY STRATEGIES	115
10.5 FIRST BAUXITE LLC	116
10.5.1 COMPANY OVERVIEW	116
10.5.2 FINANCIAL OVERVIEW	116
10.5.3 PRODUCTS OFFERED	116
10.5.4 KEY DEVELOPMENTS	116
10.5.5 SWOT ANALYSIS	117
10.5.6 KEY STRATEGIES	117
10.6 BOUD MINERALS LIMITED	118
10.6.1 COMPANY OVERVIEW	118
10.6.2 FINANCIAL OVERVIEW	118
10.6.3 PRODUCTS OFFERED	118
10.6.4 KEY DEVELOPMENTS	118
10.6.5 SWOT ANALYSIS	119
10.6.6 KEY STRATEGIES	119

## 10.7 SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES LTD 120

10.7.1 COMPANY OVERVIEW	120
10.7.2 FINANCIAL OVERVIEW	120
10.7.3 PRODUCTS OFFERED	121
10.7.4 KEY DEVELOPMENTS	121
10.7.5 SWOT ANALYSIS	121
10.7.6 KEY STRATEGIES	121
10.8 SINOCEAN INDUSTRIAL LIMITED	122
10.8.1 COMPANY OVERVIEW	122
10.8.2 FINANCIAL OVERVIEW	122
10.8.3 PRODUCTS OFFERED	122
10.8.4 KEY DEVELOPMENTS	122
10.8.5 SWOT ANALYSIS	123
10.8.6 KEY STRATEGIES	123
11 APPENDIX	124
11.1 REFERENCES	124
11.2 RELATED REPORTS	125

## LIST OF TABLES

TABLE 1 LIST OF ASSUMPTIONS & LIMITATIONS	27
TABLE 2 LIST OF POTENTIAL END-USERS	35
TABLE 3 PRICING OVERVIEW, BY REGION (USD/TON)	38
TABLE 4 AVERAGE VALUE OF COUNTRY IMPORTS/EXPORTS OF BAUXITE (USD/TON)	39
TABLE 5 GLOBAL CALCINED BAUXITE, BY PURITY, 2019–2028 (USD MILLION)	43
TABLE 6 GLOBAL CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	44
TABLE 7 GLOBAL CALCINED BAUXITE MARKET FOR HIGH PURITY (>85%), BY REGION, 2019–2028 (USD MILLION)	45
TABLE 8 GLOBAL CALCINED BAUXITE MARKET FOR HIGH PURITY (>85%), BY REGION, 2019–2028 (KILOTONS)	45
TABLE 9 GLOBAL CALCINED BAUXITE MARKET FOR LOW PURITY (<85%), BY REGION, 2019–2028 (USD MILLION)	46
TABLE 10 GLOBAL CALCINED BAUXITE MARKET FOR LOW PURITY (<85%), BY REGION, 2019–2028 (KILOTONS)	46
TABLE 11 GLOBAL CALCINED BAUXITE, BY APPLICATION, 2019–2028 (USD MILLION)	47
TABLE 12 GLOBAL CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	48
TABLE 13 GLOBAL CALCINED BAUXITE MARKET FOR ABRASIVES, BY REGION, 2019–2028 (USD MILLION)	49
TABLE 14 GLOBAL CALCINED BAUXITE MARKET FOR ABRASIVES, BY REGION, 2019–2028 (KILOTONS)	49
TABLE 15 GLOBAL CALCINED BAUXITE MARKET FOR REFRACTORY MATERIALS, BY REGION, 2019–2028 (USD MILLION)	50
TABLE 16 GLOBAL CALCINED BAUXITE MARKET FOR REFRACTORY MATERIALS, BY REGION, 2019–2028 (KILOTONS)	50
TABLE 17 GLOBAL CALCINED BAUXITE MARKET FOR METALLURGY, BY REGION, 2019–2028 (USD MILLION)	51
TABLE 18 GLOBAL CALCINED BAUXITE MARKET FOR METALLURGY, BY REGION, 2019–2028 (KILOTONS)	51
TABLE 19 GLOBAL CALCINED BAUXITE MARKET FOR ROAD SURFACING, BY REGION, 2019–2028 (USD MILLION)	52
TABLE 20 GLOBAL CALCINED BAUXITE MARKET FOR ROAD SURFACING, BY REGION, 2019–2028 (KILOTONS)	52
TABLE 21 GLOBAL CALCINED BAUXITE MARKET FOR OTHERS, BY REGION, 2019–2028 (USD MILLION)	53
TABLE 22 GLOBAL CALCINED BAUXITE MARKET FOR OTHERS, BY REGION, 2019–2028 (KILOTONS)	53
TABLE 23 GLOBAL CALCINED BAUXITE MARKET, BY REGION, 2019–2028 (USD MILLION)	55
TABLE 24 GLOBAL CALCINED BAUXITE MARKET, BY REGION, 2019–2028 (KILOTONS)	56
TABLE 25 NORTH AMERICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (USD MILLION)	57
TABLE 26 NORTH AMERICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (KILOTONS)	57
TABLE 27 NORTH AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	57
TABLE 28 NORTH AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	58
TABLE 29 NORTH AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	58
TABLE 30 NORTH AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	58
TABLE 31 US CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	59
TABLE 32 US CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	59
TABLE 33 US CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	59
TABLE 34 US CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	60
TABLE 35 CANADA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	60
TABLE 36 CANADA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	60
TABLE 37 CANADA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	61
TABLE 38 CANADA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	61
TABLE 39 EUROPE CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (USD MILLION)	62
TABLE 40 EUROPE CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (KILOTONS)	62
TABLE 41 EUROPE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	63
TABLE 42 EUROPE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	63
TABLE 43 EUROPE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	63
TABLE 44 EUROPE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	64
TABLE 45 GERMANY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	64
TABLE 46 GERMANY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	64
TABLE 47 GERMANY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	65
TABLE 48 GERMANY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	65
TABLE 49 RUSSIA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	66
TABLE 50 RUSSIA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	66
TABLE 51 RUSSIA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	66
TABLE 52 RUSSIA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	67
TABLE 53 UK CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	67
TABLE 54 UK CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	67
TABLE 55 UK CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	68
TABLE 56 UK CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	68
TABLE 57 ITALY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	69
TABLE 58 ITALY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	69
TABLE 59 ITALY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	69
TABLE 60 ITALY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	70
TABLE 61 FRANCE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	70
TABLE 62 FRANCE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	70
TABLE 63 FRANCE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	71
TABLE 64 FRANCE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	71
TABLE 65 SPAIN CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	72

TABLE 66 SPAIN CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 72  
TABLE 67 SPAIN CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 72  
TABLE 68 SPAIN CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 73  
TABLE 69 NETHERLANDS CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 73  
TABLE 70 NETHERLANDS CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 73  
TABLE 71 NETHERLANDS CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 74  
TABLE 72 NETHERLANDS CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 74  
TABLE 73 REST OF EUROPE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 75  
TABLE 74 REST OF EUROPE CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 75  
TABLE 75 REST OF EUROPE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 75  
TABLE 76 REST OF EUROPE CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 76  
TABLE 77 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (USD MILLION) 77  
TABLE 78 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (KILOTONS) 77  
TABLE 79 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 78  
TABLE 80 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 78  
TABLE 81 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 78  
TABLE 82 ASIA-PACIFIC CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 79  
TABLE 83 CHINA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 79  
TABLE 84 CHINA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 79  
TABLE 85 CHINA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 80  
TABLE 86 CHINA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 80  
TABLE 87 JAPAN CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 81  
TABLE 88 JAPAN CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 81  
TABLE 89 JAPAN CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 81  
TABLE 90 JAPAN CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 82  
TABLE 91 INDIA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 82  
TABLE 92 INDIA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 82  
TABLE 93 INDIA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 83  
TABLE 94 INDIA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 83  
TABLE 95 SOUTH KOREA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 84  
TABLE 96 SOUTH KOREA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 84  
TABLE 97 SOUTH KOREA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 84  
TABLE 98 SOUTH KOREA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 85  
TABLE 99 AUSTRALIA & NEW ZEALAND CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 85  
TABLE 100 AUSTRALIA & NEW ZEALAND CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 85  
TABLE 101 AUSTRALIA & NEW ZEALAND CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 86  
TABLE 102 AUSTRALIA & NEW ZEALAND CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 86  
TABLE 103 REST OF ASIA-PACIFIC CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 87  
TABLE 104 REST OF ASIA-PACIFIC CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 87  
TABLE 105 REST OF ASIA-PACIFIC CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 87  
TABLE 106 REST OF ASIA-PACIFIC CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 88  
TABLE 107 LATIN AMERICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (USD MILLION) 89  
TABLE 108 LATIN AMERICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (KILOTONS) 89  
TABLE 109 LATIN AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 89  
TABLE 110 LATIN AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 90  
TABLE 111 LATIN AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 90  
TABLE 112 LATIN AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 90  
TABLE 113 BRAZIL CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 91  
TABLE 114 BRAZIL CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 91  
TABLE 115 BRAZIL CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 91  
TABLE 116 BRAZIL CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 92  
TABLE 117 MEXICO CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 92  
TABLE 118 MEXICO CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 92  
TABLE 119 MEXICO CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 93  
TABLE 120 MEXICO CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 93  
TABLE 121 ARGENTINA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 94  
TABLE 122 ARGENTINA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 94  
TABLE 123 ARGENTINA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 94  
TABLE 124 ARGENTINA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 95  
TABLE 125 REST OF LATIN AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 95  
TABLE 126 REST OF LATIN AMERICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 95  
TABLE 127 REST OF LATIN AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 96  
TABLE 128 REST OF LATIN AMERICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 96  
TABLE 129 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (USD MILLION) 97  
TABLE 130 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY COUNTRY, 2019–2028 (KILOTONS) 97  
TABLE 131 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 97  
TABLE 132 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 98  
TABLE 133 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 98  
TABLE 134 MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 98  
TABLE 135 TURKEY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 99  
TABLE 136 TURKEY CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 99  
TABLE 137 TURKEY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 99  
TABLE 138 TURKEY CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 100  
TABLE 139 GCC COUNTRIES CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 100  
TABLE 140 GCC COUNTRIES CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 100  
TABLE 141 GCC COUNTRIES CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 101  
TABLE 142 GCC COUNTRIES CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 101  
TABLE 143 SOUTH AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION) 102  
TABLE 144 SOUTH AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS) 102  
TABLE 145 SOUTH AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION) 102  
TABLE 146 SOUTH AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS) 103

TABLE 147 REST OF THE MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	103
TABLE 148 REST OF THE MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	103
TABLE 149 REST OF THE MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	104
TABLE 150 REST OF THE MIDDLE EAST & AFRICA CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	104
TABLE 151 KEY DEVELOPMENTS & GROWTH STRATEGIES	105
TABLE 152 GREAT LAKES MINERALS, LLC: PRODUCTS OFFERED	107
TABLE 153 LKAB: PRODUCTS OFFERED	110
TABLE 154 EK-COMPANY AG: PRODUCTS OFFERED	112
TABLE 155 BOSAI GROUP: PRODUCTS OFFERED	114
TABLE 156 BOSAI GROUP: KEY DEVELOPMENTS	114
TABLE 157 FIRST BAUXITE LLC: PRODUCTS OFFERED	116
TABLE 158 BOUD MINERALS LIMITED: PRODUCTS OFFERED	118
TABLE 159 SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES LTD: PRODUCTS OFFERED	121
TABLE 160 SINOCEAN INDUSTRIAL LIMITED: PRODUCTS OFFERED	122

#### LIST OF FIGURES

FIGURE 1 MARKET SYNOPSIS	16
FIGURE 2 MARKET ATTRACTIVENESS ANALYSIS: GLOBAL CALCINED BAUXITE MARKET, 2020	17
FIGURE 3 GLOBAL CALCINED BAUXITE MARKET ANALYSIS, BY PURITY	18
FIGURE 4 GLOBAL CALCINED BAUXITE MARKET ANALYSIS, BY APPLICATION	19
FIGURE 5 GLOBAL CALCINED BAUXITE MARKET ANALYSIS, BY REGION	20
FIGURE 6 GLOBAL CALCINED BAUXITE MARKET: STRUCTURE	21
FIGURE 7 RESEARCH PROCESS OF MRFR	22
FIGURE 8 MARKET DYNAMICS OF GLOBAL CALCINED BAUXITE MARKET	28
FIGURE 9 GLOBAL BROWN FUSED ALUMINA CONSUMPTION ESTIMATES AND FORECASTS, 2019–2028 (KILOTONS)	29
FIGURE 10 DRIVERS IMPACT ANALYSIS: CALCINED BAUXITE MARKET	31
FIGURE 11 RESTRAINTS IMPACT ANALYSIS: GLOBAL CALCINED BAUXITE MARKET	32
FIGURE 12 SUPPLY CHAIN: GLOBAL CALCINED BAUXITE MARKET	33
FIGURE 13 PORTER'S FIVE FORCES ANALYSIS OF THE GLOBAL CALCINED BAUXITE MARKET	37
FIGURE 14 GLOBAL CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (USD MILLION)	43
FIGURE 15 GLOBAL CALCINED BAUXITE MARKET, BY PURITY, 2019–2028 (KILOTONS)	44
FIGURE 16 GLOBAL CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (USD MILLION)	47
FIGURE 17 GLOBAL CALCINED BAUXITE MARKET, BY APPLICATION, 2019–2028 (KILOTONS)	48
FIGURE 18 GLOBAL CALCINED BAUXITE MARKET BY REGION, 2019–2028 (USD MILLION)	54
FIGURE 19 GLOBAL CALCINED BAUXITE MARKET BY REGION, 2019–2028 (KILOTONS)	55
FIGURE 20 COMPETITIVE BENCHMARKING	106
FIGURE 21 GREAT LAKES MINERALS, LLC: SWOT ANALYSIS	108
FIGURE 22 LKAB: FINANCIAL OVERVIEW SNAPSHOT	110
FIGURE 23 LKAB: SWOT ANALYSIS	111
FIGURE 24 EK-COMPANY AG: SWOT ANALYSIS	113
FIGURE 25 BOSAI GROUP: SWOT ANALYSIS	115
FIGURE 26 FIRST BAUXITE LLC: SWOT ANALYSIS	117
FIGURE 27 BOUD MINERALS LIMITED: SWOT ANALYSIS	119
FIGURE 28 SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES LTD: FINANCIAL OVERVIEW SNAPSHOT	120
FIGURE 29 SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES LTD: SWOT ANALYSIS	121
FIGURE 30 SINOCEAN INDUSTRIAL LIMITED: SWOT ANALYSIS	123