

Superhard Materials Market - Global Outlook and Forecast 2022-2028

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Abstracts

A superhard material is a material with a hardness value exceeding 40 gigapascals (GPa) when measured by the Vickers hardness test. They are highly incompressible solids with high electron density and high bond covalency. As a result of their unique properties, these materials are of great interest in many industrial areas including, but not limited to, abrasives, polishing and cutting tools and wear-resistant and protective coatings.

Diamond is the hardest known material to date, with a Vickers hardness in the range of 70–150 GPa. Diamond demonstrates both high thermal conductivity and electrically insulating properties and much attention has been put into finding practical applications of this material. However, diamond has several limitations for mass industrial application, including its high cost and oxidation at temperatures above 800 °C. In addition, diamond dissolves in iron and forms iron carbides at high temperatures and therefore is inefficient in cutting ferrous materials including steel. Therefore, recent research of superhard materials has been focusing on compounds which would be thermally and chemically more stable than pure diamond.

Superhard materials can be generally classified into two categories: intrinsic compounds and extrinsic compounds. The intrinsic group includes diamond, cubic boron nitride (c-BN), carbon nitrides and ternary compounds such as B-N-C, which possess an innate hardness. Conversely, extrinsic materials are those that have superhardness and other mechanical properties that are determined by their microstructure rather than composition. An example of extrinsic superhard material is nanocrystalline diamond known as aggregated diamond nanorods.

This report contains market size and forecasts of Superhard Materials in global,

including the following market information:

Global Superhard Materials Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Superhard Materials Market Sales, 2017-2022, 2023-2028, (M Ct)

Global top five Superhard Materials companies in 2021 (%)

The global Superhard Materials market was valued at 1344.8 million in 2021 and is projected to reach US\$ 1650.2 million by 2028, at a CAGR of 3.0% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Synthetic Diamond Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Superhard Materials include Element Six, Sandvik, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind, Sino-Crystal Diamond, JINQU Superhard, CR GEMS and Anhui HongJing, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Superhard Materials manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Superhard Materials Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (M Ct)

Global Superhard Materials Market Segment Percentages, by Type, 2021 (%)

Synthetic Diamond

Cubic Boron Nitride

Global Superhard Materials Market, by Application, 2017-2022, 2023-2028 (\$ Millions)
& (M Ct)

Global Superhard Materials Market Segment Percentages, by Application, 2021 (%)

Stone and Construction

Abrasives Category

Composite Polycrystalline Tool

Others

Global Superhard Materials Market, By Region and Country, 2017-2022, 2023-2028 (\$
Millions) & (M Ct)

Global Superhard Materials Market Segment Percentages, By Region and Country,
2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Superhard Materials revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Superhard Materials revenues share in global market, 2021 (%)

Key companies Superhard Materials sales in global market, 2017-2022 (Estimated), (M Ct)

Key companies Superhard Materials sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Element Six

Sandvik

ILJIN Diamond

Zhongnan Diamond

Huanghe Whirlwind

Sino-Crystal Diamond

JINQU Superhard

CR GEMS

Anhui HongJing

SF-Diamond

Yalong Superhard Materials

Saint-Gobain

Sumitomo Electric Industries

Tomei Diamond

FUNIK

Famous Diamond

Besco Superabrasives

Zhengzhou Zhong Peng

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Superhard Materials Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Superhard Materials Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL SUPERHARD MATERIALS OVERALL MARKET SIZE

- 2.1 Global Superhard Materials Market Size: 2021 VS 2028
- 2.2 Global Superhard Materials Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global Superhard Materials Sales: 2017-2028

3 COMPANY LANDSCAPE

- 3.1 Top Superhard Materials Players in Global Market
- 3.2 Top Global Superhard Materials Companies Ranked by Revenue
- 3.3 Global Superhard Materials Revenue by Companies
- 3.4 Global Superhard Materials Sales by Companies
- 3.5 Global Superhard Materials Price by Manufacturer (2017-2022)
- 3.6 Top 3 and Top 5 Superhard Materials Companies in Global Market, by Revenue in 2021
- 3.7 Global Manufacturers Superhard Materials Product Type
- 3.8 Tier 1, Tier 2 and Tier 3 Superhard Materials Players in Global Market
 - 3.8.1 List of Global Tier 1 Superhard Materials Companies
 - 3.8.2 List of Global Tier 2 and Tier 3 Superhard Materials Companies

4 SIGHTS BY PRODUCT

- 4.1 Overview

- 4.1.1 By Type - Global Superhard Materials Market Size Markets, 2021 & 2028
- 4.1.2 Synthetic Diamond
- 4.1.3 Cubic Boron Nitride
- 4.2 By Type - Global Superhard Materials Revenue & Forecasts
 - 4.2.1 By Type - Global Superhard Materials Revenue, 2017-2022
 - 4.2.2 By Type - Global Superhard Materials Revenue, 2023-2028
 - 4.2.3 By Type - Global Superhard Materials Revenue Market Share, 2017-2028
- 4.3 By Type - Global Superhard Materials Sales & Forecasts
 - 4.3.1 By Type - Global Superhard Materials Sales, 2017-2022
 - 4.3.2 By Type - Global Superhard Materials Sales, 2023-2028
 - 4.3.3 By Type - Global Superhard Materials Sales Market Share, 2017-2028
- 4.4 By Type - Global Superhard Materials Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

- 5.1 Overview
 - 5.1.1 By Application - Global Superhard Materials Market Size, 2021 & 2028
 - 5.1.2 Stone and Construction
 - 5.1.3 Abrasives Category
 - 5.1.4 Composite Polycrystalline Tool
 - 5.1.5 Others
- 5.2 By Application - Global Superhard Materials Revenue & Forecasts
 - 5.2.1 By Application - Global Superhard Materials Revenue, 2017-2022
 - 5.2.2 By Application - Global Superhard Materials Revenue, 2023-2028
 - 5.2.3 By Application - Global Superhard Materials Revenue Market Share, 2017-2028
- 5.3 By Application - Global Superhard Materials Sales & Forecasts
 - 5.3.1 By Application - Global Superhard Materials Sales, 2017-2022
 - 5.3.2 By Application - Global Superhard Materials Sales, 2023-2028
 - 5.3.3 By Application - Global Superhard Materials Sales Market Share, 2017-2028
- 5.4 By Application - Global Superhard Materials Price (Manufacturers Selling Prices), 2017-2028

6 SIGHTS BY REGION

- 6.1 By Region - Global Superhard Materials Market Size, 2021 & 2028
- 6.2 By Region - Global Superhard Materials Revenue & Forecasts
 - 6.2.1 By Region - Global Superhard Materials Revenue, 2017-2022
 - 6.2.2 By Region - Global Superhard Materials Revenue, 2023-2028

- 6.2.3 By Region - Global Superhard Materials Revenue Market Share, 2017-2028
- 6.3 By Region - Global Superhard Materials Sales & Forecasts
 - 6.3.1 By Region - Global Superhard Materials Sales, 2017-2022
 - 6.3.2 By Region - Global Superhard Materials Sales, 2023-2028
 - 6.3.3 By Region - Global Superhard Materials Sales Market Share, 2017-2028
- 6.4 North America
 - 6.4.1 By Country - North America Superhard Materials Revenue, 2017-2028
 - 6.4.2 By Country - North America Superhard Materials Sales, 2017-2028
 - 6.4.3 US Superhard Materials Market Size, 2017-2028
 - 6.4.4 Canada Superhard Materials Market Size, 2017-2028
 - 6.4.5 Mexico Superhard Materials Market Size, 2017-2028
- 6.5 Europe
 - 6.5.1 By Country - Europe Superhard Materials Revenue, 2017-2028
 - 6.5.2 By Country - Europe Superhard Materials Sales, 2017-2028
 - 6.5.3 Germany Superhard Materials Market Size, 2017-2028
 - 6.5.4 France Superhard Materials Market Size, 2017-2028
 - 6.5.5 U.K. Superhard Materials Market Size, 2017-2028
 - 6.5.6 Italy Superhard Materials Market Size, 2017-2028
 - 6.5.7 Russia Superhard Materials Market Size, 2017-2028
 - 6.5.8 Nordic Countries Superhard Materials Market Size, 2017-2028
 - 6.5.9 Benelux Superhard Materials Market Size, 2017-2028
- 6.6 Asia
 - 6.6.1 By Region - Asia Superhard Materials Revenue, 2017-2028
 - 6.6.2 By Region - Asia Superhard Materials Sales, 2017-2028
 - 6.6.3 China Superhard Materials Market Size, 2017-2028
 - 6.6.4 Japan Superhard Materials Market Size, 2017-2028
 - 6.6.5 South Korea Superhard Materials Market Size, 2017-2028
 - 6.6.6 Southeast Asia Superhard Materials Market Size, 2017-2028
 - 6.6.7 India Superhard Materials Market Size, 2017-2028
- 6.7 South America
 - 6.7.1 By Country - South America Superhard Materials Revenue, 2017-2028
 - 6.7.2 By Country - South America Superhard Materials Sales, 2017-2028
 - 6.7.3 Brazil Superhard Materials Market Size, 2017-2028
 - 6.7.4 Argentina Superhard Materials Market Size, 2017-2028
- 6.8 Middle East & Africa
 - 6.8.1 By Country - Middle East & Africa Superhard Materials Revenue, 2017-2028
 - 6.8.2 By Country - Middle East & Africa Superhard Materials Sales, 2017-2028
 - 6.8.3 Turkey Superhard Materials Market Size, 2017-2028
 - 6.8.4 Israel Superhard Materials Market Size, 2017-2028

6.8.5 Saudi Arabia Superhard Materials Market Size, 2017-2028

6.8.6 UAE Superhard Materials Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 Element Six

7.1.1 Element Six Corporate Summary

7.1.2 Element Six Business Overview

7.1.3 Element Six Superhard Materials Major Product Offerings

7.1.4 Element Six Superhard Materials Sales and Revenue in Global (2017-2022)

7.1.5 Element Six Key News

7.2 Sandvik

7.2.1 Sandvik Corporate Summary

7.2.2 Sandvik Business Overview

7.2.3 Sandvik Superhard Materials Major Product Offerings

7.2.4 Sandvik Superhard Materials Sales and Revenue in Global (2017-2022)

7.2.5 Sandvik Key News

7.3 ILJIN Diamond

7.3.1 ILJIN Diamond Corporate Summary

7.3.2 ILJIN Diamond Business Overview

7.3.3 ILJIN Diamond Superhard Materials Major Product Offerings

7.3.4 ILJIN Diamond Superhard Materials Sales and Revenue in Global (2017-2022)

7.3.5 ILJIN Diamond Key News

7.4 Zhongnan Diamond

7.4.1 Zhongnan Diamond Corporate Summary

7.4.2 Zhongnan Diamond Business Overview

7.4.3 Zhongnan Diamond Superhard Materials Major Product Offerings

7.4.4 Zhongnan Diamond Superhard Materials Sales and Revenue in Global (2017-2022)

7.4.5 Zhongnan Diamond Key News

7.5 Huanghe Whirlwind

7.5.1 Huanghe Whirlwind Corporate Summary

7.5.2 Huanghe Whirlwind Business Overview

7.5.3 Huanghe Whirlwind Superhard Materials Major Product Offerings

7.5.4 Huanghe Whirlwind Superhard Materials Sales and Revenue in Global (2017-2022)

7.5.5 Huanghe Whirlwind Key News

7.6 Sino-Crystal Diamond

7.6.1 Sino-Crystal Diamond Corporate Summary

- 7.6.2 Sino-Crystal Diamond Business Overview
- 7.6.3 Sino-Crystal Diamond Superhard Materials Major Product Offerings
- 7.6.4 Sino-Crystal Diamond Superhard Materials Sales and Revenue in Global (2017-2022)
- 7.6.5 Sino-Crystal Diamond Key News
- 7.7 JINQU Superhard
 - 7.7.1 JINQU Superhard Corporate Summary
 - 7.7.2 JINQU Superhard Business Overview
 - 7.7.3 JINQU Superhard Superhard Materials Major Product Offerings
 - 7.7.4 JINQU Superhard Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.7.5 JINQU Superhard Key News
- 7.8 CR GEMS
 - 7.8.1 CR GEMS Corporate Summary
 - 7.8.2 CR GEMS Business Overview
 - 7.8.3 CR GEMS Superhard Materials Major Product Offerings
 - 7.8.4 CR GEMS Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.8.5 CR GEMS Key News
- 7.9 Anhui HongJing
 - 7.9.1 Anhui HongJing Corporate Summary
 - 7.9.2 Anhui HongJing Business Overview
 - 7.9.3 Anhui HongJing Superhard Materials Major Product Offerings
 - 7.9.4 Anhui HongJing Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.9.5 Anhui HongJing Key News
- 7.10 SF-Diamond
 - 7.10.1 SF-Diamond Corporate Summary
 - 7.10.2 SF-Diamond Business Overview
 - 7.10.3 SF-Diamond Superhard Materials Major Product Offerings
 - 7.10.4 SF-Diamond Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.10.5 SF-Diamond Key News
- 7.11 Yalong Superhard Materials
 - 7.11.1 Yalong Superhard Materials Corporate Summary
 - 7.11.2 Yalong Superhard Materials Superhard Materials Business Overview
 - 7.11.3 Yalong Superhard Materials Superhard Materials Major Product Offerings
 - 7.11.4 Yalong Superhard Materials Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.11.5 Yalong Superhard Materials Key News
- 7.12 Saint-Gobain
 - 7.12.1 Saint-Gobain Corporate Summary

- 7.12.2 Saint-Gobain Superhard Materials Business Overview
- 7.12.3 Saint-Gobain Superhard Materials Major Product Offerings
- 7.12.4 Saint-Gobain Superhard Materials Sales and Revenue in Global (2017-2022)
- 7.12.5 Saint-Gobain Key News
- 7.13 Sumitomo Electric Industries
 - 7.13.1 Sumitomo Electric Industries Corporate Summary
 - 7.13.2 Sumitomo Electric Industries Superhard Materials Business Overview
 - 7.13.3 Sumitomo Electric Industries Superhard Materials Major Product Offerings
 - 7.13.4 Sumitomo Electric Industries Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.13.5 Sumitomo Electric Industries Key News
- 7.14 Tomei Diamond
 - 7.14.1 Tomei Diamond Corporate Summary
 - 7.14.2 Tomei Diamond Business Overview
 - 7.14.3 Tomei Diamond Superhard Materials Major Product Offerings
 - 7.14.4 Tomei Diamond Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.14.5 Tomei Diamond Key News
- 7.15 FUNIK
 - 7.15.1 FUNIK Corporate Summary
 - 7.15.2 FUNIK Business Overview
 - 7.15.3 FUNIK Superhard Materials Major Product Offerings
 - 7.15.4 FUNIK Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.15.5 FUNIK Key News
- 7.16 Famous Diamond
 - 7.16.1 Famous Diamond Corporate Summary
 - 7.16.2 Famous Diamond Business Overview
 - 7.16.3 Famous Diamond Superhard Materials Major Product Offerings
 - 7.16.4 Famous Diamond Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.16.5 Famous Diamond Key News
- 7.17 Besco Superabrasives
 - 7.17.1 Besco Superabrasives Corporate Summary
 - 7.17.2 Besco Superabrasives Business Overview
 - 7.17.3 Besco Superabrasives Superhard Materials Major Product Offerings
 - 7.17.4 Besco Superabrasives Superhard Materials Sales and Revenue in Global (2017-2022)
 - 7.17.5 Besco Superabrasives Key News
- 7.18 Zhengzhou Zhong Peng
 - 7.18.1 Zhengzhou Zhong Peng Corporate Summary

- 7.18.2 Zhengzhou Zhong Peng Business Overview
- 7.18.3 Zhengzhou Zhong Peng Superhard Materials Major Product Offerings
- 7.18.4 Zhengzhou Zhong Peng Superhard Materials Sales and Revenue in Global (2017-2022)
- 7.18.5 Zhengzhou Zhong Peng Key News

8 GLOBAL SUPERHARD MATERIALS PRODUCTION CAPACITY, ANALYSIS

- 8.1 Global Superhard Materials Production Capacity, 2017-2028
- 8.2 Superhard Materials Production Capacity of Key Manufacturers in Global Market
- 8.3 Global Superhard Materials Production by Region

9 KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS

- 9.1 Market Opportunities & Trends
- 9.2 Market Drivers
- 9.3 Market Restraints

10 SUPERHARD MATERIALS SUPPLY CHAIN ANALYSIS

- 10.1 Superhard Materials Industry Value Chain
- 10.2 Superhard Materials Upstream Market
- 10.3 Superhard Materials Downstream and Clients
- 10.4 Marketing Channels Analysis
 - 10.4.1 Marketing Channels
 - 10.4.2 Superhard Materials Distributors and Sales Agents in Global

11 CONCLUSION

12 APPENDIX

- 12.1 Note
- 12.2 Examples of Clients
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Superhard Materials in Global Market

Table 2. Top Superhard Materials Players in Global Market, Ranking by Revenue (2021)

Table 3. Global Superhard Materials Revenue by Companies, (US\$, Mn), 2017-2022

Table 4. Global Superhard Materials Revenue Share by Companies, 2017-2022

Table 5. Global Superhard Materials Sales by Companies, (M Ct), 2017-2022

Table 6. Global Superhard Materials Sales Share by Companies, 2017-2022

Table 7. Key Manufacturers Superhard Materials Price (2017-2022) & (USD/K Ct)

Table 8. Global Manufacturers Superhard Materials Product Type

Table 9. List of Global Tier 1 Superhard Materials Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Superhard Materials Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Superhard Materials Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Global Superhard Materials Revenue (US\$, Mn), 2017-2022

Table 13. By Type - Global Superhard Materials Revenue (US\$, Mn), 2023-2028

Table 14. By Type - Global Superhard Materials Sales (M Ct), 2017-2022

Table 15. By Type - Global Superhard Materials Sales (M Ct), 2023-2028

Table 16. By Application – Global Superhard Materials Revenue, (US\$, Mn), 2021 & 2028

Table 17. By Application - Global Superhard Materials Revenue (US\$, Mn), 2017-2022

Table 18. By Application - Global Superhard Materials Revenue (US\$, Mn), 2023-2028

Table 19. By Application - Global Superhard Materials Sales (M Ct), 2017-2022

Table 20. By Application - Global Superhard Materials Sales (M Ct), 2023-2028

Table 21. By Region – Global Superhard Materials Revenue, (US\$, Mn), 2021 VS 2028

Table 22. By Region - Global Superhard Materials Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global Superhard Materials Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global Superhard Materials Sales (M Ct), 2017-2022

Table 25. By Region - Global Superhard Materials Sales (M Ct), 2023-2028

Table 26. By Country - North America Superhard Materials Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America Superhard Materials Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America Superhard Materials Sales, (M Ct), 2017-2022

Table 29. By Country - North America Superhard Materials Sales, (M Ct), 2023-2028

Table 30. By Country - Europe Superhard Materials Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe Superhard Materials Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe Superhard Materials Sales, (M Ct), 2017-2022

Table 33. By Country - Europe Superhard Materials Sales, (M Ct), 2023-2028

Table 34. By Region - Asia Superhard Materials Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia Superhard Materials Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia Superhard Materials Sales, (M Ct), 2017-2022

Table 37. By Region - Asia Superhard Materials Sales, (M Ct), 2023-2028

Table 38. By Country - South America Superhard Materials Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America Superhard Materials Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America Superhard Materials Sales, (M Ct), 2017-2022

Table 41. By Country - South America Superhard Materials Sales, (M Ct), 2023-2028

Table 42. By Country - Middle East & Africa Superhard Materials Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa Superhard Materials Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa Superhard Materials Sales, (M Ct), 2017-2022

Table 45. By Country - Middle East & Africa Superhard Materials Sales, (M Ct), 2023-2028

Table 46. Element Six Corporate Summary

Table 47. Element Six Superhard Materials Product Offerings

Table 48. Element Six Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)

Table 49. Sandvik Corporate Summary

Table 50. Sandvik Superhard Materials Product Offerings

Table 51. Sandvik Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)

Table 52. ILJIN Diamond Corporate Summary

Table 53. ILJIN Diamond Superhard Materials Product Offerings

Table 54. ILJIN Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)

Table 55. Zhongnan Diamond Corporate Summary

Table 56. Zhongnan Diamond Superhard Materials Product Offerings

Table 57. Zhongnan Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)

Table 58. Huanghe Whirlwind Corporate Summary

Table 59. Huanghe Whirlwind Superhard Materials Product Offerings
Table 60. Huanghe Whirlwind Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 61. Sino-Crystal Diamond Corporate Summary
Table 62. Sino-Crystal Diamond Superhard Materials Product Offerings
Table 63. Sino-Crystal Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 64. JINQU Superhard Corporate Summary
Table 65. JINQU Superhard Superhard Materials Product Offerings
Table 66. JINQU Superhard Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 67. CR GEMS Corporate Summary
Table 68. CR GEMS Superhard Materials Product Offerings
Table 69. CR GEMS Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 70. Anhui HongJing Corporate Summary
Table 71. Anhui HongJing Superhard Materials Product Offerings
Table 72. Anhui HongJing Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 73. SF-Diamond Corporate Summary
Table 74. SF-Diamond Superhard Materials Product Offerings
Table 75. SF-Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 76. Yalong Superhard Materials Corporate Summary
Table 77. Yalong Superhard Materials Superhard Materials Product Offerings
Table 78. Yalong Superhard Materials Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 79. Saint-Gobain Corporate Summary
Table 80. Saint-Gobain Superhard Materials Product Offerings
Table 81. Saint-Gobain Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 82. Sumitomo Electric Industries Corporate Summary
Table 83. Sumitomo Electric Industries Superhard Materials Product Offerings
Table 84. Sumitomo Electric Industries Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 85. Tomei Diamond Corporate Summary
Table 86. Tomei Diamond Superhard Materials Product Offerings
Table 87. Tomei Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)

Table 88. FUNIK Corporate Summary
Table 89. FUNIK Superhard Materials Product Offerings
Table 90. FUNIK Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 91. Famous Diamond Corporate Summary
Table 92. Famous Diamond Superhard Materials Product Offerings
Table 93. Famous Diamond Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 94. Besco Superabrasives Corporate Summary
Table 95. Besco Superabrasives Superhard Materials Product Offerings
Table 96. Besco Superabrasives Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 97. Zhengzhou Zhong Peng Corporate Summary
Table 98. Zhengzhou Zhong Peng Superhard Materials Product Offerings
Table 99. Zhengzhou Zhong Peng Superhard Materials Sales (M Ct), Revenue (US\$, Mn) and Average Price (USD/K Ct) (2017-2022)
Table 100. Superhard Materials Production Capacity (M Ct) of Key Manufacturers in Global Market, 2020-2022 (M Ct)
Table 101. Global Superhard Materials Capacity Market Share of Key Manufacturers, 2020-2022
Table 102. Global Superhard Materials Production by Region, 2017-2022 (M Ct)
Table 103. Global Superhard Materials Production by Region, 2023-2028 (M Ct)
Table 104. Superhard Materials Market Opportunities & Trends in Global Market
Table 105. Superhard Materials Market Drivers in Global Market
Table 106. Superhard Materials Market Restraints in Global Market
Table 107. Superhard Materials Raw Materials
Table 108. Superhard Materials Raw Materials Suppliers in Global Market
Table 109. Typical Superhard Materials Downstream
Table 110. Superhard Materials Downstream Clients in Global Market
Table 111. Superhard Materials Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

Figure 1. Superhard Materials Segment by Type

Figure 2. Superhard Materials Segment by Application

Figure 3. Global Superhard Materials Market Overview: 2020

Figure 4. Key Caveats

Figure 5. Global Superhard Materials Market Size: 2021 VS 2028 (US\$, Mn)

Figure 6. Global Superhard Materials Revenue, 2017-2028 (US\$, Mn)

Figure 7. Superhard Materials Sales in Global Market: 2017-2028 (M Ct)

Figure 8. The Top 3 and 5 Players Market Share by Superhard Materials Revenue in 2021

Figure 9. By Type - Global Superhard Materials Sales Market Share, 2017-2028

Figure 10. By Type - Global Superhard Materials Revenue Market Share, 2017-2028

Figure 11. By Type - Global Superhard Materials Price (USD/K Ct), 2017-2028

Figure 12. By Application - Global Superhard Materials Sales Market Share, 2017-2028

Figure 13. By Application - Global Superhard Materials Revenue Market Share, 2017-2028

Figure 14. By Application - Global Superhard Materials Price (USD/K Ct), 2017-2028

Figure 15. By Region - Global Superhard Materials Sales Market Share, 2017-2028

Figure 16. By Region - Global Superhard Materials Revenue Market Share, 2017-2028

Figure 17. By Country - North America Superhard Materials Revenue Market Share, 2017-2028

Figure 18. By Country - North America Superhard Materials Sales Market Share, 2017-2028

Figure 19. US Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 20. Canada Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 21. Mexico Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 22. By Country - Europe Superhard Materials Revenue Market Share, 2017-2028

Figure 23. By Country - Europe Superhard Materials Sales Market Share, 2017-2028

Figure 24. Germany Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 25. France Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia Superhard Materials Revenue Market Share, 2017-2028

Figure 32. By Region - Asia Superhard Materials Sales Market Share, 2017-2028

Figure 33. China Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 37. India Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America Superhard Materials Revenue Market Share, 2017-2028

Figure 39. By Country - South America Superhard Materials Sales Market Share, 2017-2028

Figure 40. Brazil Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa Superhard Materials Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa Superhard Materials Sales Market Share, 2017-2028

Figure 44. Turkey Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE Superhard Materials Revenue, (US\$, Mn), 2017-2028

Figure 48. Global Superhard Materials Production Capacity (M Ct), 2017-2028

Figure 49. The Percentage of Production Superhard Materials by Region, 2020 VS 2027

Figure 50. Superhard Materials Industry Value Chain

Figure 51. Marketing Channels

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