Tungsten Carbide Powder Market Research Report – Forecast to 2023

Report / Search Code: MRFR/CnM/4525-HCRR       Publish Date: January, 2019

Request Sample

Price
1-user PDF : $ 4450.0
Enterprise PDF : $ 6250.0

Description:

Global Tungsten Carbide Powder Market Information: By Grade (Rotary Drilling & Mining, Metal Forming & Wear), Application (Cutting Tools, Wear Parts), End-Use Industries (Mining & Construction, Military & Defense, Industrial Engineering) - Forecast Till 2023

Market Overview

Tungsten carbide powder is produced by carburization in a hydrogen atmosphere with tungsten powder and carbon mixture. It offers high thermal conductivity, intense strength, and extreme stiffness, which make it an excellent material of choice for all types of metal forming and cutting tools.

The global tungsten carbide powder market is primarily driven by the increasing demand for industrial machinery in the industrial sector across the globe from various end-use industries such as automotive, aerospace, chemical, and consumer electronics. According to a report about Strategic Technologies for the Army of Twenty-First Century (STAR 21), tungsten carbide can be an alternative to depleted uranium as both of them work against light armor, which may increase the product demand in military & defense sector. Furthermore, the increasing adoption of tungsten carbide for manufacturing 3D printer’s nozzles required in extrusion process can be a potential opportunity for the market growth over the assessment period. According to the International Tungsten Industry Association (ITIA), tungsten shot and ammunition are less hazardous alternatives to poisonous lead for hunting and in military training. According to Stockholm International Peace Research Institute (SIPRI), the total U.S. military expenditure was USD 611 billion in 2016 with a share of around 36% of total world military expenditure, which was followed by China. The increase in military & defense expenditure is likely to propel the market growth over the assessment period. Some of the key development trends noticed in the market include merger, acquisition, and expansion among others. For instance, in November 2014, CERATIZIT Italia, a subsidiary of CERATIZIT announced to acquire the Italian drawing tool manufacturer VAN-Dies by the end of the year. This acquisition led to CERATIZIT becoming a full range provider of tungsten carbide tools in the Italian market and strengthened business in Europe. Furthermore, in December 2016, Umicore announced a share purchase agreement to acquire Eurotungstene, a specialized in developing, manufacturing, and marketing metal powders used in diamond tools and hard metal applications. However, the product has been identified toxic by the New Jersey Department of Health and Senior Services. Also, the exposure limits of 5 mg/m3 over an average of 8 hours and 10 hours has been set by National Institute for Occupational Safety and Health (NIOSH) and American Conference of Governmental Industrial Hygienists (ACGIH) respectively. Both the regulatory bodies have set the limit of 10 mg/m3 as a Short Term Exposure Limit (STEL). The limitations on use of the product may challenge the market growth during the forecast period.

Global Tungsten Carbide Powder, by the End-use Industry (%)
Regional Analysis

The global tungsten carbide powder market is spanned across five regions namely Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa.

Asia Pacific was dominating the global tungsten carbide powder market in 2016 owing to the high demand from major end-use industries such as construction, transportation, and aerospace in countries such as Japan, India, China, and others. The increasing industrial sector in Asia Pacific is likely to drive the global market during the forecast period 2018-2023.

North America was the second largest region in the global tungsten carbide powder market in 2016 on account of the high demand from the military & defense, automotive, and aerospace industries.

The European market is expected to grow due to high product demand from the manufacturers of various automotive parts in the region.

Latin America is projected to witness a considerable growth due to growing automotive sector in the region, especially in Mexico.

The increasing product demand in oil & gas and construction sectors is likely to drive the market in GCC countries over the review period, 2018-2023.

Segmentation

The global tungsten carbide powder market is segmented on the basis of the grade, application, end-use industry, and region.

On the basis of the grades, the global tungsten carbide powder market is segmented into rotary drilling & mining, metal forming & wear, submicron, corrosion resistant, general purposes, and others.

On the basis of the application, the market is segmented into cutting tools, wear parts, roll & die, diamond tools, mining tools, and abrasive products.

By the end-use industry, the market is segmented into mining & construction, military & defense, industrial engineering, transportation, oil & gas, aerospace, and others.

Key Players

Some of the manufacturers operating in the global tungsten carbide powder market are Sandvik AB (Sweden), Kennametal (U.S.), CERATIZIT S.A. (Luxembourg), Federal Carbid Company (U.S.), GuangDong XiangLu Tungsten Co., Ltd (China), Nanchang Cemented Carbid Co., Ltd. (China), JAPAN NEW METALS CO., LTD. (Japan), Umicore (Belgium), ChinaTungsten (China), H.C. Starck GmbH (U.S.), Reade International Corp., (U.S), and Merck KGaA (Germany).

Intended Audience

- Tungsten Carbide Powder Manufacturers
Contents:

TABLE OF CONTENTS

1 Executive Summary
2 Scope of the Report
  2.1 Market Definition
  2.2 Scope of the Study
  2.2.1 Research Objectives
  2.2.2 Assumptions & Limitations
  2.3 Markets Structure
3 Market Research Methodology
  3.1 Research Process
  3.2 Secondary Research
  3.3 Primary Research
  3.4 Forecast Model
4 Market Landscape
  4.1 Supply Chain Analysis
    4.1.1 Raw Material Suppliers
    4.1.2 Manufacturers/Producers
    4.1.3 Distributors/Retailers/Wholesalers/E-commerce
    4.1.4 End Users
  4.2 Porter’s Five Forces Analysis
    4.2.1 Threat of New Entrants
    4.2.2 Bargaining Power of Buyers
    4.2.3 Bargaining Power of Suppliers
    4.2.4 Threat of Substitutes
    4.2.5 Intensity of Competitive Rivalry
5 Market Dynamics of Global Tungsten Carbide Powder Market
  5.1 Introduction
  5.2 Drivers
  5.3 Restraints
  5.4 Opportunities
  5.5 Challenges
  5.6 Trends/Technology
6. Global Tungsten Carbide Powder Market by Grade
  6.1 Introduction
  6.2 Rotary Drilling & Mining
    6.2.1 Market Estimates & Forecast, 2018-2023
    6.2.2 Market Estimates & Forecast by Region, 2018-2023
  6.3 Metal Forming & Wear
    6.3.1 Market Estimates & Forecast, 2018-2023
    6.3.2 Market Estimates & Forecast by Region, 2018-2023
  6.4 Submicron
6.4.1 Market Estimates & Forecast, 2018-2023
6.4.2 Market Estimates & Forecast by Region, 2018-2023
6.5 Corrosion Resistant
6.5.1 Market Estimates & Forecast, 2018-2023
6.5.2 Market Estimates & Forecast by Region, 2018-2023
6.6 General Purposes
6.6.1 Market Estimates & Forecast, 2018-2023
6.6.2 Market Estimates & Forecast by Region, 2018-2023
6.7 Others
6.7.1 Market Estimates & Forecast, 2018-2023
6.7.2 Market Estimates & Forecast by Region, 2018-2023

7. Global Tungsten Carbide Powder Market, by Application
7.1 Introduction
7.2 Cutting Tools
7.2.1 Market Estimates & Forecast, 2018-2023
7.2.2 Market Estimates & Forecast by Region, 2018-2023
7.3 Wear Parts
7.3.1 Market Estimates & Forecast, 2018-2023
7.3.2 Market Estimates & Forecast by Region, 2018-2023
7.4 Roll & Die
7.4.1 Market Estimates & Forecast, 2018-2023
7.4.2 Market Estimates & Forecast by Region, 2018-2023
7.5 Diamond Tools
7.5.1 Market Estimates & Forecast, 2018-2023
7.5.2 Market Estimates & Forecast by Region, 2018-2023
7.6 Mining Tools
7.6.1 Market Estimates & Forecast, 2018-2023
7.6.2 Market Estimates & Forecast by Region, 2018-2023
7.7 Abrasive Products
7.7.1 Market Estimates & Forecast, 2018-2023
7.7.2 Market Estimates & Forecast by Region, 2018-2023

8. Global Tungsten Carbide Powder Market, by End-use Industry
8.1 Introduction
8.2 Mining & Construction
8.2.1 Market Estimates & Forecast, 2018-2023
8.2.2 Market Estimates & Forecast by Region, 2018-2023
8.3 Military & Defense
8.3.1 Market Estimates & Forecast, 2018-2023
8.3.2 Market Estimates & Forecast by Region, 2018-2023
8.4 Industrial Engineering
8.4.1 Market Estimates & Forecast, 2018-2023
8.4.2 Market Estimates & Forecast by Region, 2018-2023
8.5 Transportation
8.5.1 Market Estimates & Forecast, 2018-2023
8.5.2 Market Estimates & Forecast by Region, 2018-2023
8.6 Oil & Gas
8.6.1 Market Estimates & Forecast, 2018-2023
8.6.2 Market Estimates & Forecast by Region, 2018-2023
8.7 Aerospace
8.7.1 Market Estimates & Forecast, 2018-2023
8.7.2 Market Estimates & Forecast by Region, 2018-2023
8.8 Others
8.8.1 Market Estimates & Forecast, 2018-2023
8.8.2 Market Estimates & Forecast by Region, 2018-2023

9. Global Tungsten Carbide Powder Market, by Region
9.1 Introduction
9.2 North America
9.2.1 Market Estimates & Forecast, 2018-2023
9.2.2 Market Estimates & Forecast by Grade, 2018-2023
9.2.3 Market Estimates & Forecast by Application, 2018-2023
9.2.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.2.5 U.S.
9.2.5.1 Market Estimates & Forecast, 2018-2023
9.2.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.2.5.3 Market Estimates & Forecast by Application, 2018-2023
9.2.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.2.6 Canada
9.2.6.1 Market Estimates & Forecast, 2018-2023
9.2.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.2.6.3 Market Estimates & Forecast by Application, 2018-2023
9.2.6.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3 Europe
9.3.1 Market Estimates & Forecast, 2018-2023
9.3.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.3 Market Estimates & Forecast by Application, 2018-2023
9.3.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.5 Germany
9.3.5.1 Market Estimates & Forecast, 2018-2023
9.3.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.5.3 Market Estimates & Forecast by Application, 2018-2023
9.3.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.6 France
9.3.6.1 Market Estimates & Forecast, 2018-2023
9.3.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.6.3 Market Estimates & Forecast by Application, 2018-2023
9.3.6.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.7 Italy
9.3.7.1 Market Estimates & Forecast, 2018-2023
9.3.7.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.7.3 Market Estimates & Forecast by Application, 2018-2023
9.3.7.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.8 Spain
9.3.8.1 Market Estimates & Forecast, 2018-2023
9.3.8.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.8.3 Market Estimates & Forecast by Application, 2018-2023
9.3.8.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.9 U.K.
9.3.9.1 Market Estimates & Forecast, 2018-2023
9.3.9.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.9.3 Market Estimates & Forecast by Application, 2018-2023
9.3.9.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.10 Russia
9.3.10.1 Market Estimates & Forecast, 2018-2023
9.3.10.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.10.3 Market Estimates & Forecast by Application, 2018-2023
9.3.10.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.3.11 Poland
9.3.11.1 Market Estimates & Forecast, 2018-2023
9.3.11.2 Market Estimates & Forecast by Grade, 2018-2023
9.3.11.3 Market Estimates & Forecast by Application, 2018-2023
9.3.11.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4 Asia Pacific
9.4.1 Market Estimates & Forecast, 2018-2023
9.4.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.3 Market Estimates & Forecast by Application, 2018-2023
9.4.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.5 China
9.4.5.1 Market Estimates & Forecast, 2018-2023
9.4.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.5.3 Market Estimates & Forecast by Application, 2018-2023
9.4.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.6 India
9.4.6.1 Market Estimates & Forecast, 2018-2023
9.4.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.6.3 Market Estimates & Forecast by Application, 2018-2023
9.4.6.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.7 Japan
9.4.7.1 Market Estimates & Forecast, 2018-2023
9.4.7.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.7.3 Market Estimates & Forecast by Application, 2018-2023
9.4.7.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.8 Australia
9.4.8.1 Market Estimates & Forecast, 2018-2023
9.4.8.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.8.3 Market Estimates & Forecast by Application, 2018-2023
9.4.8.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.9 New Zealand
9.4.9.1 Market Estimates & Forecast, 2018-2023
9.4.9.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.9.3 Market Estimates & Forecast by Application, 2018-2023
9.4.9.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.4.10 Rest of Asia Pacific
9.4.10.1 Market Estimates & Forecast, 2018-2023
9.4.10.2 Market Estimates & Forecast by Grade, 2018-2023
9.4.10.3 Market Estimates & Forecast by Application, 2018-2023
9.4.10.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5 Middle East & Africa

9.5.1 Market Estimates & Forecast, 2018-2023
9.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.3 Market Estimates & Forecast by Application, 2018-2023
9.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5.5 Turkey

9.5.5.1 Market Estimates & Forecast, 2018-2023
9.5.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.5.3 Market Estimates & Forecast by Application, 2018-2023
9.5.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5.6 Israel

9.5.6.1 Market Estimates & Forecast, 2018-2023
9.5.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.6.3 Market Estimates & Forecast by Application, 2018-2023
9.5.6.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5.7 North Africa

9.5.7.1 Market Estimates & Forecast, 2018-2023
9.5.7.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.7.3 Market Estimates & Forecast by Application, 2018-2023
9.5.7.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5.8 GCC

9.5.8.1 Market Estimates & Forecast, 2018-2023
9.5.8.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.8.3 Market Estimates & Forecast by Application, 2018-2023
9.5.8.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.5.9 Rest of Middle East & Africa

9.5.9.1 Market Estimates & Forecast, 2018-2023
9.5.9.2 Market Estimates & Forecast by Grade, 2018-2023
9.5.9.3 Market Estimates & Forecast by Application, 2018-2023
9.5.9.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.6 Latin America

9.6.1 Market Estimates & Forecast, 2018-2023
9.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.6.3 Market Estimates & Forecast by Application, 2018-2023
9.6.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.6.5 Brazil

9.6.5.1 Market Estimates & Forecast, 2018-2023
9.6.5.2 Market Estimates & Forecast by Grade, 2018-2023
9.6.5.3 Market Estimates & Forecast by Application, 2018-2023
9.6.5.4 Market Estimates & Forecast by End-use Industry, 2018-2023

9.6.6 Mexico

9.6.6.1 Market Estimates & Forecast, 2018-2023
9.6.6.2 Market Estimates & Forecast by Grade, 2018-2023
9.6.6.3 Market Estimates & Forecast by Application, 2018-2023
9.6.6.6 Market Estimates & Forecast by End-use Industry, 2018-2023
9.6.7 Argentina
9.6.7.1 Market Estimates & Forecast, 2018-2023
9.6.7.2 Market Estimates & Forecast by Grade, 2018-2023
9.6.7.3 Market Estimates & Forecast by Application, 2018-2023
9.6.7.4 Market Estimates & Forecast by End-use Industry, 2018-2023
9.6.8 Rest of Latin America
9.6.8.1 Market Estimates & Forecast, 2018-2023
9.6.8.2 Market Estimates & Forecast by Grade, 2018-2023
9.6.8.3 Market Estimates & Forecast by Application, 2018-2023
9.6.8.4 Market Estimates & Forecast by End-use Industry, 2018-2023

10. Company Landscape
10.1 Introduction
10.2 Market Strategy
10.3 Key Development Analysis (Expansion/Merger & Acquisitions/Joint Venture/New Product Development/Agreement/Investment)

11. Company Profiles
11.1 Sandvik AB
11.1.1 Company Overview
11.1.2 Financial Updates
11.1.3 Product/Business Segment Overview
11.1.4 Strategy
11.1.5 Key Developments
11.1.6 SWOT Analysis
11.2 Kennametal
11.2.1 Company Overview
11.2.2 Financial Updates
11.2.3 Product/Business Segment Overview
11.2.4 Strategy
11.2.5 Key Developments
11.2.6 SWOT Analysis
11.3 CERATIZIT S.A.
11.3.1 Company Overview
11.3.2 Financial Updates
11.3.3 Product/Business Segment Overview
11.3.4 Strategy
11.3.5 Key Developments
11.3.6 SWOT Analysis
11.4 Federal Carbide Company
11.4.1 Company Overview
11.4.2 Financial Updates
11.4.3 Product/Business Segment Overview
11.4.4 Strategy
11.4.5 Key Developments
11.4.6 SWOT Analysis
11.5 GuangDong XiangLu Tungsten Co., Ltd
11.5.1 Company Overview
11.5.2 Financial Updates
11.5.3 Product/Business Segment Overview
11.5.4 Strategy
11.12.4 Strategy
11.12.5 Key Developments
11.12.6 SWOT Analysis

12. Conclusion

LIST OF TABLES

Table 1 Global Tungsten Carbide Powder market: By Region, 2018-2023
Table 2 North America Tungsten Carbide Powder market: By Country, 2018-2023
Table 3 Europe Tungsten Carbide Powder market: By Country, 2018-2023
Table 4 Asia-Pacific Tungsten Carbide Powder market: By Country, 2018-2023
Table 5 Middle East & Africa Tungsten Carbide Powder market: By Country, 2018-2023
Table 6 Latin America Tungsten Carbide Powder market: By Country, 2018-2023
Table 7 Global Tungsten Carbide Powder Grade Market: By Regions, 2018-2023
Table 8 North America Tungsten Carbide Powder Grade Market: By Country, 2018-2023
Table 9 Europe Tungsten Carbide Powder Grade Market: By Country, 2018-2023
Table 10 Asia-Pacific Tungsten Carbide Powder Grade Market: By Country, 2018-2023
Table 11 Middle East & Africa Tungsten Carbide Powder Grade Market: By Country, 2018-2023
Table 12 Latin America Tungsten Carbide Powder Grade Market: By Country, 2018-2023
Table 13 Global Tungsten Carbide Powder Application Market: By Regions, 2018-2023
Table 14 North America Tungsten Carbide Powder Application Market: By Country, 2018-2023
Table 15 Europe Tungsten Carbide Powder Application Market: By Country, 2018-2023
Table 16 Asia-Pacific Tungsten Carbide Powder Application Market: By Country, 2018-2023
Table 17 Middle East & Africa Tungsten Carbide Powder Application Market: By Country, 2018-2023
Table 18 Latin America Tungsten Carbide Powder Application Market: By Country, 2018-2023
Table 19 Global Tungsten Carbide Powder End-use Industry Market: By Regions, 2018-2023
Table 20 North America Tungsten Carbide Powder End-use Industry Market: By Country, 2018-2023
Table 21 Europe Tungsten Carbide Powder End-use Industry Market: By Country, 2018-2023
Table 22 Asia-Pacific Tungsten Carbide Powder End-use Industry Market: By Country, 2018-2023
Table 23 Middle East & Africa Tungsten Carbide Powder End-use Industry Market: By Country, 2018-2023
Table 24 Latin America Tungsten Carbide Powder End-use Industry Market: By Country, 2018-2023
Table 25 Global Grade Market: By Region, 2018-2023
Table 26 Global Application Market: By Region, 2018-2023
Table 27 Global End-use Industry Market: By Region, 2018-2023
Table 28 North America Tungsten Carbide Powder market, By Country
Table 29 North America Tungsten Carbide Powder market, By Grade
Table 30 North America Tungsten Carbide Powder market, By Application
Table 31 North America Tungsten Carbide Powder market, By End-use Industry
Table 32 Europe: Tungsten Carbide Powder market, By Country
Table 33 Europe: Tungsten Carbide Powder market, By Grade
Table 34 Europe: Tungsten Carbide Powder market, By Application
Table 35 Europe: Tungsten Carbide Powder market, By End-use Industry
Table 36 Asia-Pacific: Tungsten Carbide Powder market, By Country
Table 37 Asia-Pacific: Tungsten Carbide Powder market, By Grade
Table 38 Asia-Pacific: Tungsten Carbide Powder market, By Application
Table 39 Asia-Pacific: Tungsten Carbide Powder market, By End-use Industry
Table 40 Middle East & Africa: Tungsten Carbide Powder market, By Country
Table 41 Middle East & Africa Tungsten Carbide Powder market, By Grade
Table 42 Middle East & Africa Tungsten Carbide Powder market, By Application