Global tungsten carbide market research: information by grade type (general purpose grade, metal forming and wear grades, others), by end-user industry (automobiles, mining and construction, oil and gas, defense, and others) – Forecast till 2023

Synopsis of Tungsten carbide Market

Tungsten carbide is a chemical compound containing both tungsten and carbon atoms in equal parts. Tungsten carbide is generally a grey powder in its basic form but has the ability to be pressed and formed into different shapes depending upon its use in the end user industries. The properties such as high tensile strength, durability and abrasion resistance finds its application in many end user industries. Moreover, the advantages coupled with its cost effectiveness makes them suitable and its major applications includes automobiles, mining & construction, oil & gas, defense, and electrical & electronics among others.

The growth of tungsten carbide market can be attributed to its growing consumption in the applications such as machine & cutting tool components, dies & punches, abrasive products and others. The growing industrialization, and urbanization in the developing regions throughout the globe is expected to boost the market during the forecast years. The global market of tungsten carbide is a lucrative one and it is expected to expand at an encouraging CAGR during the forecast years. The excellent durability, high tensile strength, and corrosion & abrasion resistance of tungsten carbide makes it ideal to be used in mining & construction and automobile which is a major factor driving the market positively.

Among the various grade segments in tungsten carbide market, the rotary & mining is the leading segment of the market and is anticipated to continue its dominance over the forecast period. This growth is attributed to the increased demand rotary and mining grade due to its excellent properties such as tensile strength, excellent impact strength, stiffness and among others. They are extensively used in production of mining and machinery components such as inserts, nozzles, rods, buttons, sheets and others. Among the end user industry, mining and construction is expected to be the largest segment and is expected to grow at a considerable CAGR. The growing oil and gas activities coupled with the increase in government investment for the development of infrastructure throughout the globe are some of the factor contributing to the growth of the market.

The Global tungsten carbide market share by end use industry.
Regional Analysis:

The tungsten carbide market is segmented across five regions: Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. Among these, Asia Pacific holds a major share of the market and is expected to be a dominant market with an encouraging CAGR during the forecast period. The rapid growth of industries and urbanization is fuelling the growth of tungsten carbide in the developing countries of Asia Pacific. Moreover, the favorable government regulation in the region has attracted many industry players to enter the lucrative market of Asia Pacific which in turn is fuelling the market growth. Furthermore, the presence of most populated countries such as India and China, has augmented the oil and gas related activities to meet its growing energy requirement which in turn significantly driving the demand for tungsten carbide in the oil and gas industry. China, India and Japan are the largest consumers of tungsten carbide in this region. North America is another dominant region in the market of tungsten carbide. The developed end user industries such as construction, transportation and electronics among others are significantly driving the market growth. Moreover, the new elected government has brought in a new wave of investment in development and renovation of residential and commercial infrastructure which is expected to boost the demand for tungsten carbide in the construction industry.

The European market is a lucrative market mainly driven by the developed electrical & electronics, construction and automobile sector. Moreover, the growing oil and gas activities coupled with the increasing infrastructural development are the major factor attributing to the growth of the market. In addition to this, the growing R&D activities in the automobile sector has further augmented the use of tungsten carbide owing to its ability to reduce dust and increase efficiency in the automobile systems.

Segmental Analysis:

The global tungsten carbide market is segmented into grade type and end user industry. On the basis of grade the market is segmented into general purpose grade, metal foaming and wear grades, submicron grades, rotary drilling and mining grades, and corrosion resistant grades. On the basis of end user industry the global tungsten carbide market is segmented into mining and construction, oil and gas, electrical and electronics, automobiles, defense and others.

Key Players:

Some of the prominent players operating in the Global tungsten carbide market are Sandvik AB (Sweden), Kennametal Inc. (U.S.), Ceratizit S.A. (Luxembourg), Extramat AG (Switzerland), Federal Carbide Company (U.S.), Guangdong Xianglu Tungsten Co., Ltd. (China), Nanchang Cemented Carbide Co., Ltd. (China), Jiangxi Yaosheng Tungsten Co., Ltd. (China), Japan New Metal Co., Ltd. (Japan), China Tungsten (Xiamen) and Eurotungstene (France), among others.

Geographical Analysis:

The report covers brief analysis of the major geographic regions namely Asia Pacific, Europe, North America, Latin America, and the Middle East & Africa.

Intended Audience:

- Tungsten carbide market manufacturers
- Traders and Distributors of Tungsten carbide market
- Production Process Industries
- Potential Investors
- Raw Material Suppliers
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 Porter’s Five Forces Analysis

4.1.1 Threat of New Entrants

4.1.2 Bargaining power of buyers

4.1.3 Threat of substitutes

4.1.4 Segment rivalry

4.2 Value Chain/Supply Chain of Global Tungsten carbide Market

5 Industry Overview of Global Tungsten carbide Market

5.1 Introduction

5.2 Growth Drivers

5.3 Impact analysis

5.4 Market Challenges

6 Market Trends

6.1 Introduction

6.2 Growth Trends

6.3 Impact analysis

7. Global Tungsten carbide Market by Grade Type

7.1 Introduction

7.2 General purpose grade

7.2.1 Market Estimates & Forecast, 2017-2023

7.2.2 Market Estimates & Forecast by Region, 2017-2023

7.3 Metal foaming and wear grades

7.3.1 Market Estimates & Forecast, 2017-2023

7.3.2 Market Estimates & Forecast by Region, 2017-2023

7.4 Submicron grades

7.4.1 Market Estimates & Forecast, 2017-2023

7.4.2 Market Estimates & Forecast by Region, 2017-2023

7.5 Rotary drilling and mining grades

7.5.1 Market Estimates & Forecast, 2017-2023

7.5.2 Market Estimates & Forecast by Region, 2017-2023

7.6 Corrosion resistant grades

7.6.1 Market Estimates & Forecast, 2017-2023
7.6.2 Market Estimates & Forecast by Region, 2017-2023

8. Global Tungsten carbide Market by End user industry

8.1 Introduction

8.2 Mining and Construction

8.2.1 Market Estimates & Forecast, 2017-2023

8.2.2 Market Estimates & Forecast by Region, 2017-2023

8.3 Oil & gas

8.3.1 Market Estimates & Forecast, 2017-2023

8.3.2 Market Estimates & Forecast by Region, 2017-2023

8.4 Electrical and electronics

8.4.1 Market Estimates & Forecast, 2017-2023

8.4.2 Market Estimates & Forecast by Region, 2017-2023

8.5 Automobile

8.5.1 Market Estimates & Forecast, 2017-2023

8.5.2 Market Estimates & Forecast by Region, 2017-2023

8.6 Defense

8.6.1 Market Estimates & Forecast, 2017-2023

8.6.2 Market Estimates & Forecast by Region, 2017-2023

8.7 Others

8.7.1 Market Estimates & Forecast, 2017-2023

8.7.2 Market Estimates & Forecast by Region, 2017-2023

9. Global Tungsten carbide Market by Region

9.1 Introduction

9.2 North America

9.2.1 Market Estimates & Forecast, 2017-2023

9.2.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.2.3 Market Estimates & Forecast by End user industry, 2017-2023

9.2.4 U.S.

9.2.4.1 Market Estimates & Forecast, 2017-2023

9.2.4.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.2.4.3 Market Estimates & Forecast by End user industry, 2017-2023

9.2.5 Mexico

9.2.5.1 Market Estimates & Forecast, 2017-2023

9.2.5.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.2.5.3 Market Estimates & Forecast by End user industry, 2017-2023

9.2.6 Canada

9.2.6.1 Market Estimates & Forecast, 2017-2023

9.2.6.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.2.6.3 Market Estimates & Forecast by End user industry, 2017-2023

9.3 Europe

9.3.1 Market Estimates & Forecast, 2017-2023

9.3.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.3.3 Market Estimates & Forecast by End user industry, 2017-2023

9.3.4 Germany

9.3.4.1 Market Estimates & Forecast, 2017-2023

9.3.4.2 Market Estimates & Forecast by Grade Type, 2017-2023

9.3.4.3 Market Estimates & Forecast by End user industry, 2017-2023

9.3.5 France
9.3.5.1 Market Estimates & Forecast, 2017-2023
9.3.5.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.3.5.3 Market Estimates & Forecast by End user industry, 2017-2023
9.3.6 Italy
9.3.6.1 Market Estimates & Forecast, 2017-2023
9.3.6.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.3.6.3 Market Estimates & Forecast by End user industry, 2017-2023
9.3.7 Spain
9.3.7.1 Market Estimates & Forecast, 2017-2023
9.3.7.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.3.7.3 Market Estimates & Forecast by End user industry, 2017-2023
9.3.8 U.K
9.3.8.1 Market Estimates & Forecast, 2017-2023
9.3.8.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.3.8.3 Market Estimates & Forecast by End user industry, 2017-2023
9.3.9 Rest of Europe
9.3.9.1 Market Estimates & Forecast, 2017-2023
9.3.9.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.3.9.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4 Asia Pacific
9.4.1 Market Estimates & Forecast, 2017-2023
9.4.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.4 China
9.4.4.1 Market Estimates & Forecast, 2017-2023
9.4.4.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.4.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.5 India
9.4.5.1 Market Estimates & Forecast, 2017-2023
9.4.5.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.5.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.6 Japan
9.4.6.1 Market Estimates & Forecast, 2017-2023
9.4.6.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.6.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.7 Australia
9.4.7.1 Market Estimates & Forecast, 2017-2023
9.4.7.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.7.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.8 New Zealand
9.4.8.1 Market Estimates & Forecast, 2017-2023
9.4.8.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.8.3 Market Estimates & Forecast by End user industry, 2017-2023
9.4.9 Rest of Asia Pacific
9.4.9.1 Market Estimates & Forecast, 2017-2023
9.4.9.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.4.9.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5 The Middle East & Africa
9.5.1 Market Estimates & Forecast, 2017-2023
9.5.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5.4 Turkey
9.5.4.1 Market Estimates & Forecast, 2017-2023
9.5.4.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.4.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5.5 Israel
9.5.5.1 Market Estimates & Forecast, 2017-2023
9.5.5.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.5.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5.6 North Africa
9.5.6.1 Market Estimates & Forecast, 2017-2023
9.5.6.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.6.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5.7 GCC
9.5.7.1 Market Estimates & Forecast, 2017-2023
9.5.7.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.7.3 Market Estimates & Forecast by End user industry, 2017-2023
9.5.8 Rest of the Middle East & Africa
9.5.8.1 Market Estimates & Forecast, 2017-2023
9.5.8.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.5.8.3 Market Estimates & Forecast by End user industry, 2017-2023
9.6 Latin America
9.6.1 Market Estimates & Forecast, 2017-2023
9.6.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.6.3 Market Estimates & Forecast by End user industry, 2017-2023
9.6.4 Brazil
9.6.4.1 Market Estimates & Forecast, 2017-2023
9.6.4.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.6.4.3 Market Estimates & Forecast by End user industry, 2017-2023
9.6.5 Argentina
9.6.5.1 Market Estimates & Forecast, 2017-2023
9.6.5.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.6.5.3 Market Estimates & Forecast by End user industry, 2017-2023
9.6.6 Rest of Latin America
9.6.6.1 Market Estimates & Forecast, 2017-2023
9.6.6.2 Market Estimates & Forecast by Grade Type, 2017-2023
9.6.6.3 Market Estimates & Forecast by End user industry, 2017-2023

10. Company Landscape

11. Company Profiles
11.1 Sandvik AB
11.1.1 Company Overview
11.1.2 Grade Type/Business Segment Overview
11.1.3 Financial Updates
11.1.4 Key Developments
11.2 Kennametal Inc
11.2.1 Company Overview
11.2.2 Grade Type/Business Segment Overview
11.2.3 Financial Updates
11.2.4 Key Developments
11.3 Ceratizit S.A
11.3.1 Company Overview
11.3.2 Grade Type/Business Segment Overview
11.3.3 Financial Updates
11.3.4 Key Developments
11.4 Extremet AG
11.4.1 Company Overview
11.4.2 Grade Type/Business Segment Overview
11.4.3 Financial Updates
11.4.4 Key Developments
11.5 Federal Carbide Company
11.5.1 Company Overview
11.5.2 Grade Type/Business Segment Overview
11.5.3 Financial Updates
11.5.4 Key Developments
11.6 Guangdong Xianglu Tungsten Co., Ltd.
11.6.1 Company Overview
11.6.2 Grade Type/Business Segment Overview
11.6.3 Financial Updates
11.6.4 Key Developments
11.7 Nanchang Cemented Carbide Co., Ltd
11.7.1 Company Overview
11.7.2 Grade Type/Business Segment Overview
11.7.3 Financial Updates
11.7.4 Key Developments
11.8 Jiangxi Yaosheng Tungsten Co., Ltd
11.8.1 Company Overview
11.8.2 Grade Type/Business Segment Overview
11.8.3 Financial Updates
11.8.4 Key Developments
11.9 Japan New Metal Co., Ltd
11.9.1 Company Overview
11.9.2 Grade Type/Business Segment Overview
11.9.3 Financial Updates
11.9.4 Key Developments
11.10 China Tungsten
11.10.1 Company Overview
11.10.2 Grade Type/Business Segment Overview
11.10.3 Financial Updates
11.10.4 Key Developments
11.11 Eurotungstene
11.11.1 Company Overview
11.11.2 Grade Type/Business Segment Overview
11.11.3 Financial Updates
11.11.4 Key Developments
12 Conclusion

LIST OF TABLES

Table 1 World Population by Major Regions (2017 To 2030)
Table 2 Global Tungsten carbide Market: By Region, 2017-2023
Table 3 North America Tungsten carbide Market: By Country, 2017-2023
Table 4 Europe Tungsten carbide Market: By Country, 2017-2023
Table 5 Asia Pacific Tungsten carbide Market: By Country, 2017-2023
Table 6 The Middle East & Africa Tungsten carbide Market: By Country, 2017-2023
Table 7 Latin America Tungsten carbide Market: By Country, 2017-2023
Table 8 Global Tungsten carbide by Grade Type Market: By Regions, 2017-2023
Table 9 North America Tungsten carbide by Grade Type Market: By Country, 2017-2023
Table 10 Europe Tungsten carbide by Grade Type Market: By Country, 2017-2023
Table 11 Asia Pacific Tungsten carbide by Grade Type Market: By Country, 2017-2023
Table 12 The Middle East & Africa Tungsten carbide by Grade Type Market: By Country, 2017-2023
Table 13 Latin America Tungsten carbide by Grade Type Market: By Country, 2017-2023
Table 14 Global Tungsten carbide by End user industry Market: By Regions, 2017-2023
Table 15 North America Tungsten carbide by End user industry Market: By Country, 2017-2023
Table 16 Europe Tungsten carbide by End user industry Market: By Country, 2017-2023
Table 17 Asia Pacific Tungsten carbide by End user industry Market: By Country, 2017-2023
Table 18 The Middle East & Africa Tungsten carbide by End user industry Market: By Country, 2017-2023
Table 19 Latin America Tungsten carbide by End user industry Market: By Country, 2017-2023
Table 20 Global Tungsten carbide by End user industry Market: By Regions, 2017-2023
Table 21 Global Grade Type Market: By Region, 2017-2023
Table 22 Global End user industry Market: By Region, 2017-2023
Table 23 Global End-use Market: By Region, 2017-2023
Table 24 North America Tungsten carbide Market, By Country
Table 25 North America Tungsten carbide Market, By Grade Type
Table 26 North America Tungsten carbide Market, By End user industry
Table 27 North America Tungsten carbide Market, By End-use
Table 28 Europe: Tungsten carbide Market, By Country
Table 29 Europe: Tungsten carbide Market, By Grade Type
Table 30 Europe: Tungsten carbide Market, By End user industry
Table 31 Europe: Tungsten carbide Market, By End-use
Table 32 Asia Pacific: Tungsten carbide Market, By Country
Table 33 Asia Pacific: Tungsten carbide Market, By Grade Type
Table 34 Asia Pacific: Tungsten carbide Market, By End user industry
Table 35 Asia Pacific: Tungsten carbide Market, By End-use
Table 36 The Middle East & Africa: Tungsten carbide Market, By Country
Table 37 The Middle East & Africa Tungsten carbide Market, By Grade Type
Table 38 The Middle East & Africa Tungsten carbide Market, By End user industry
Table 39 The Middle East & Africa: Tungsten carbide Market, By End-use
Table 41 Latin America: Tungsten carbide Market, By Country
Table 42 Latin America Tungsten carbide Market, By Grade Type
Table 43 Latin America Tungsten carbide Market, By End user industry
Table 44 Latin America: Tungsten carbide Market, By End-use
LIST OF FIGURES

FIGURE 1 Global Tungsten carbide market segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Five Forces Analysis of Global Tungsten carbide Market
FIGURE 4 Value Chain of Global Tungsten carbide Market
FIGURE 5 Share of Global Tungsten carbide Market in 2017, by country (in %)
FIGURE 6 Global Tungsten carbide Market, 2017-2023,
FIGURE 7 Sub segments of Grade Type
FIGURE 8 Global Tungsten carbide Market size by Grade Type, 2017
FIGURE 9 Share of Global Tungsten carbide Market by Grade Type, 2017 to 2023
FIGURE 10 Global Tungsten carbide Market size by End user industry, 2017
FIGURE 11 Share of Global Tungsten carbide Market by End user industry, 2017 to 2023