

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) HMPE (High Modulus Polyethylene) Ropes Market 2018, Forecast to 2023

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## Abstracts

HMPE is comprised of extremely long molecules (chains) of polyethylene oriented in the same direction, which results in large areas of overlap between the molecules. This overlap greatly increases the bond between the molecules and thereby, the strength of the fibre is greatly increased. When rope is manufactured using this fibre, extremely high strengths can be achieved. Dyneema® is the premium brand for High Modulus Polyethylene fibre.

HMPE (High Modulus PolyEthylene), also known as UHMWPE (Ultra High Molecular Weight PolyEthylene) or HPPE (High Performance PolyEthylene), is a polyolefin resin of very high molecular weight (mass) usually between 2 and 6 million g/mol with extremely long chains produced by gel spinning (wet or dry methods). The longer chain serves to transfer load more effectively to the polymer backbone by strengthening intermolecular interactions. This results in a very tough material, with the highest impact strength of any thermoplastic presently made.

HMPE is odorless, tasteless, and nontoxic. It is highly resistant to corrosive chemicals except oxidizing acids, has extremely low moisture absorption (Hydrophobic), very low coefficient of friction, self-lubricating and highly resistant to abrasion, in some forms being 15 times more resistant to abrasion than carbon steel. Its coefficient of friction is significantly lower than that of nylon and acetal, and is comparable to that of polytetrafluoroethylene (PTFE, Teflon), but HMPE has better abrasion resistance than PTFE. HMPE material floats in water thus gaining another advantage over many other materials such as Polyester, Nylon, Aramids and LCP.

HMPE ropes are increasingly replacing steel and conventional fibers in the shipping and offshore businesses of oil & gas, aquaculture, wind mills and cables and lately, experimentally, in ships' cranes. These high performance ropes are stronger than steel and ~1/8 of the weight of comparable steel wires.

## SCOPE OF THE REPORT:

This report focuses on the HMPE (High Modulus Polyethylene) Ropes in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

HMPE ropes is driven by customers' and end-users' needs for lightweight, sustainable solutions that offer extreme durability coupled with improved safety and ergonomics.

HMPE products typically replace traditional materials such as steel and aramid.

The leading companies own the advantages on better performance, more abundant product's types, better technical and impeccable after-sales service. Consequently, they take the majority of the market share of high-end market. Looking to the future years, the slow downward price trend in recent years will maintain. As competition intensifies, prices gap between different brands will go narrowing. Similarly, there will be fluctuation in gross margin.

The industry is expected to remain innovation-led, with frequent acquisitions and strategic alliances adopted as the key strategies by the players to increase their industry presence. Market stays in mature period with a clear concentration. Meanwhile, optimize product mix and further develop value-added capabilities to maximize margins. Manufacturers can take advantage of this situation by reinforcing their production units and supply-chains to avoid any delay in production turn-around-times (TAT) and supply-lead-times.

Significant and lasting barriers make entry into this market difficult. These barriers include, but are not limited to: (i) product development costs; (ii) capital requirements; (iii) intellectual property rights; (iv) regulatory requirement; and (v) Transitions' unfair methods of competition.

Despite the presence of competition problems, due to the global recovery trend is clear, investors are still optimistic about this area, the future will still have more new investment enter the field. Even so, the market is intensely competitive. The study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

The worldwide market for HMPE (High Modulus Polyethylene) Ropes is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Lankhorst(WireCo)

Samson

Bridon

English Braids

Marlow Ropes

Katradis

Southern Ropes

Taizhou Hongda

Jiangsu Shenyun

Hunan Zhongtai

Ningbo Dacheng

Rope Technology

Juli Sling

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

3 Strand

8 Strand

12 Strand

Others

Market Segment by Applications, can be divided into

Industrial

Ocean

Leisure

Other

There are 15 Chapters to deeply display the global HMPE (High Modulus Polyethylene) Ropes market.

Chapter 1, to describe HMPE (High Modulus Polyethylene) Ropes Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of HMPE (High Modulus Polyethylene) Ropes, with sales, revenue, and price of HMPE (High Modulus Polyethylene) Ropes, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of HMPE (High Modulus Polyethylene) Ropes, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and

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by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, HMPE (High Modulus Polyethylene) Ropes market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe HMPE (High Modulus Polyethylene) Ropes sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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