

## **Copper Smelting Market By Process (Reverberatory Smelting, Oxygen Flash Smelting, Functioning Flash Smelting, Converter Furnace Smelting, Acid Furnace Smelting, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031**

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### **Report description:**

The global copper smelting market was valued at \$1.4 billion in 2021, and is projected to reach \$2.0 billion by 2031, growing at a CAGR of 3.8% from 2022 to 2031.

Acid furnace smelting includes leaching of ore with use of ammonia or sulfuric acid in order to extract blister copper. Acid furnace smelting of copper is a continuous and multi-step smelting process that produces blister copper. Blister copper is a partial purified copper with blister surface formed during acid smelting process. Blister copper is mainly used for production of Tel (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>Pb tetra ethyl lead. This Tel (C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>Pb tetra ethyl lead is further used to increase the efficiency of petroleum products or used as petroleum additive. In addition, it can also be used in automotive batteries, paints & pigments, and solder products. This factor has escalated the demand for blister copper thereby driving the demand of global market. In addition, copper ore concentrates are mined and stored and then separated depending upon copper grade. The separated copper ore is further differentiated on the basis of formulation quality and later transferred into flash smelting furnaces. Flash smelting includes refining of copper ore inside flash furnace in presence of oxygen enriched air. The copper is oxidized quickly and later melted followed by refining process. The copper produced through functioning flash smelting process consist 65% slag and mixture of iron oxide, silica, and other compounds. Traditional copper smelting process tend to generate and emit large toxic gas emission. Thus, several key-players in the copper smelting industry are adopting functioning flash smelting process, which is driving the demand for the global market. Majorly, functioning flash copper smelting process is used owing to its economic factors and production of high-quality electrolytic copper. All these factors are driving the demand of the global market.

However, copper ore generally consists of sulphur. Thus, copper smelting process tend to release sulphur dioxide, contributing towards air and water pollution. In addition, other harmful by-products release during copper smelting, which also contribute towards environmental degradation. For instance, slag is another contaminant released during copper smelting. This slag further tends to contaminate groundwater reservoirs.

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Oxygen flash smelting includes production of blister copper through oxidation of copper-iron sulphide. Oxygen flash smelting produces casted copper wire. Cast copper wires are used across several industries owing to their material strength, durability, and corrosion resistance. In addition, the demand for cast copper rods across power & communication cables, household electrical wire, power distribution transformers, and magnets have escalated the demand for oxygen flash smelting of copper, thereby augmenting the demand of the global market. Key players in the copper smelting market are introducing innovative flash smelting technology process that offers low energy consumption, minimal emission, and high recovery of unsmelted copper is another considerable factor driving the demand of the global market. Blowing of oxygen during copper smelting significantly increases smelting capacity of copper ore and produces high grade copper.□

Moreover, blowing of high-pressure oxygen inside the smelters produces high quality copper slag product that is further used in electronics & communication end-use industry. Oxygen flash smelting is important step in the pyrometallurgical production of blister copper. Oxygen flash smelting is considered as major copper smelting process and leads to production of molten matte copper and slag copper. All these factors collectively drive the demand of the global market. Copper slag is used in applications such as abrasive tools, roofing granules, tiles, railroad ballast, and others. This factor has escalated the demand for slag copper and anticipated to offer new growth opportunities for the global market.

The global copper smelting market profiles leading players that include Aditya Birla Management Corporation Pvt. Ltd., ASARCO (American Smelting and Refining Company), Aurubis AG, Dhanvanti Engineering, Glencore, Hindustan Copper Limited, KGHM, Southern Copper Corp, Teck Resources Ltd., and Vedanta Limited. The global copper smelting market report provides in-depth competitive analysis as well as profiles of these major players

#### Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the copper smelting market analysis from 2021 to 2031 to identify the prevailing copper smelting market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the copper smelting market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global copper smelting market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Process

- Reverberatory Smelting
- Oxygen Flash Smelting
- Functioning Flash Smelting
- Converter Furnace Smelting
- Acid Furnace Smelting
- Others

##### By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France

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- Spain
- Italy
- Russia
- Rest of Europe
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Rest of Latin America
- Rest of Middle East And Africa
- Key Market Players
- Aditya Birla Management Corporation Pvt. Ltd.
- American Smelting and Refining Company
- Aurubis AG
- Dhanavanti Engineering
- Glencore
- Hindustan Copper Limited
- KGHM
- Southern Copper Corp.
- Teck Resources Ltd.
- Vedanta Limited

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