SCOTTS INTERNATIONAL

Welding Materials Market by Type (Electrodes & Filler Materials, Fluxes & Wires, Gases), Technology (Arc, Resistance, Oxy-Fuel Welding), End-use Industry (Transportation, Building & Construction, Heavy Industries), and Region - Global Forecast to 2030

Market Report | 2025-09-11 | 218 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User $4950.00
- Multi User $6650.00
- Corporate License $8150.00
- Enterprise Site License $10000.00

Report description:

The welding materials market is projected to grow from USD 18.86 billion in 2025 to USD 22.53 billion by 2030, at a CAGR of 3.62% during the forecast period. The increase in spending in the building and construction sector, advancements in manufacturing industries, and the growth of repair and maintenance activities are expected to drive the demand for welding materials. The rise in residential construction and the renovation or rebuilding of existing infrastructure will likely push the welding materials market. However, the market faces challenges related to its environmental impact. The environmental effects of welding materials include their production, use, and disposal, affecting air quality, resource consumption, and waste management.

https://www.marketsandmarkets.com/Images/welding-material-market-Overview.webp

"Arc welding technology segment to lead market during forecast period"
Arc welding is expected to be the largest segment in the welding materials market during the forecast period. This method benefits from a high concentration of heat during the welding process, where an electric arc forms between the electrode and base materials, melting the metals. The consistent metal deposition, excellent corrosion resistance, and high impact toughness also contribute to its status as a leading welding technology. Arc welding is also preferred in the welding industry due to its affordability and versatility across various metal surfaces. These advantages explain why arc welding remains a popular choice in welding materials for industries that require reliable, strong, and efficient metal joining.

"Electrodes and filler materials to be largest segment during forecast period"

Electrodes and filler materials are primarily used in welding because they are essential for creating strong, durable, and high-quality welded joints. They can be employed across a wide range of welding methods and applications. Welding electrodes serve as the conduit that conducts electricity from the electrode holder to the metal surface being joined. They also supply the necessary filler material during welding. Filler materials are consumables used to fill gaps that may form during welding. These gaps typically occur when two metal pieces are joined, and filling them enhances the strength and functionality of the welded assembly.

"Heavy industries segment to hold second-largest share during forecast period"
Heavy industries are expected to be the second-largest segment of the welding materials market. Heavy industries use welding extensively because welding is critical for fabricating, assembling, and maintaining heavy-duty equipment and structures requiring strong, durable, and high-integrity joints. Sectors like shipbuilding, oil & gas, mining, railways, and heavy machinery manufacture work with thick, high-strength steel plates and complex assemblies requiring substantial welding consumables such as electrodes, fluxes, and filler wires.

"Asia Pacific welding materials market to record highest CAGR during forecast period"
The welding materials market in Asia Pacific is expanding due to rapid industrial development, infrastructure projects, and manufacturing growth. Countries like China and India are investing heavily in transportation systems, urban housing, power plants, ports, and industrial zones. Large construction and infrastructure projects require extensive welding for steel structures, pipelines, and components, boosting the demand for electrodes, wires, and fluxes. Asia Pacific also hosts major automotive manufacturing hubs in China, Japan, India, South Korea, and Thailand, along with key centers for appliances and machinery. These industries depend on automated and manual welding methods, which consume considerable materials. Furthermore, countries are ramping up their production abilities in heavy machinery and rail manufacturing.
By Company Type: Tier 1: 25%, Tier 2: 42%, and Tier 3: 33%
By Designation: C-level Executives: 20%, Directors: 30%, and Other Designations: 50%
By Region: North America: 20%, Europe: 10%, Asia Pacific: 40%, South America: 10%, and Middle East & Africa 20%
Notes: Other designations include sales, marketing, and product managers.
Tier 1: >USD 1 Billion; Tier 2: USD 500 million-1 Billion; and Tier 3: <USD 500 million
Companies Covered: Air Liquide (France), Air Products Inc. (US), ESAB (US), Illinois Tool Works Inc. (US), Linde plc (Germany), Lincoln Electric Holdings, Inc. (US), Ador Welding (India), Tianjin Bridge Welding Materials Group Co., Ltd. (China), Kobe Steel, Ltd. (Japan), and voestalpine AG (Austria) among others.
The study includes an in-depth competitive analysis of these key players in the welding materials market, with their company profiles, recent developments, and key market strategies.
Research Coverage
This research report categorizes the welding materials market by type (electrode & filler materials, gases, fluxes & wires), technology (arc welding, resistant welding, oxy fuel welding, other technologies), end-use industry (transportation, heavy industries, building & construction, and other end-use industries), and region (Asia Pacific, North America, Europe, South America, and Middle East & Africa). The report's scope includes detailed information on the drivers, restraints, challenges, and opportunities affecting the growth of the welding materials market. A thorough analysis of key industry players provides insights into their business profiles, products offered, and key strategies such as partnerships, agreements, product launches, expansions, and acquisitions in the welding materials market. This report also features a competitive analysis of emerging startups within the welding materials ecosystem.

Reasons to Buy Report
The report provides market leaders and new entrants with approximate revenue figures for the overall welding materials market

and its subsegments. It helps stakeholders understand the competitive landscape, gain insights into positioning their businesses better, and develop appropriate go-to-market strategies. Additionally, the report offers information on key market drivers, restraints, challenges, and opportunities to help stakeholders grasp the market's pulse.

The report provides insights into the following points:

- Analysis of key drivers (increasing demand from end-use industries, and long-term growth in emerging markets and investments in energy infrastructure), restraints (environmental impact of welding materials), opportunities (growth prospects in developing economies, and new and advanced applications), and challenges (shortage and high labor costs).
- Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product & service launches in the welding materials market.
- Market Development: Comprehensive information about profitable markets - the report analyzes the welding materials market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the welding materials market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and offerings of leading players such as Air Liquide (France), Air Products Inc. (US), ESAB (US), Illinois Tool Works Inc. (US), Linde plc (Germany), Lincoln Electric Holdings, Inc. (US), Ador Welding (India), Tianjin Bridge Welding Materials Group Co., Ltd. (China), Kobe Steel, Ltd. (Japan), and voestalpine AG (Austria).

Table of Contents:

Welding Materials Market by Type (Electrodes & Filler Materials, Fluxes & Wires, Gases), Technology (Arc, Resistance, Oxy-Fuel Welding), End-use Industry (Transportation, Building & Construction, Heavy Industries), and Region - Global Forecast to 2030

Market Report | 2025-09-11 | 218 pages | MarketsandMarkets

To place an Order with Scotts International:
- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	$4950.00
	Multi User	$6650.00
	Corporate License	$8150.00
	Enterprise Site License	$10000.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	

Zip Code*		Country*	
		Date	2026-03-04
		Signature	