

# Global Welding Consumables Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA9EB77851E7EN.html>

Date: August 2026

Pages: 145

Price: US\$ 4,480.00 (Single User License)

ID: GA9EB77851E7EN

## Abstracts

The global Welding Consumables market size is expected to reach \$ 19521 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global Welding Materials production reached approximately 10818.4 K Tonnes, with an average global market price of around US\$ 1330/Tonne. Welding consumables refer to all materials and tools used in the welding process, including electrodes, wires, fluxes, and other consumable items. They are classified based on their composition and intended use, such as tubular cored electrodes for high-strength steel welding.

The demand for laser welding consumables has soared.

The compound growth rate of hybrid laser welding technology is 9.59%, driving the demand for high-precision welding wires and special protective gases.

The wall thickness of precision cold-rolled welded pipes has exceeded the limit of 0.1mm. The penetration of scenarios such as new energy vehicle battery shells and hydrogen fuel bipolar plates is accelerating.

Integration of intelligence and automation

Visual sensing and AI algorithms enable the detection rate of welding defects to reach 99.97%, driving the proportion of consumables suitable for automated production lines to increase, such as core-wire welding rods and self-protective fluxes.

The penetration rate of welding robots will reach 58% in 2025, promoting the growth of continuous supply systems for welding wires and low-splash consumables.

## Acceleration of green and low-carbon transformation

Environmental protection material research: The proportion of copper-free welding wires and low-smoke core-wire welding rods has increased, and policies are promoting stricter emission reduction standards for welding smoke.

Energy-saving process application: The laser-electric arc composite welding technology reduces energy consumption by 30%, promoting the establishment of a green certification system for supporting consumables.

## Challenges and breakthrough directions

High-end dependence: Nickel-based welding wires and special fluxes for aviation and nuclear power still rely on imports, with the domesticization rate being less than 30%.

Cost pressure: The price of raw materials such as rare earth alloys has risen, forcing enterprises to develop low-cost alternative materials (such as manganese-based fluxes).

This report studies the global Welding Consumables production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Welding Consumables and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Welding Consumables that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Welding Consumables total production and demand, 2021-2032, (K MT)

Global Welding Consumables total production value, 2021-2032, (USD Million)

Global Welding Consumables production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Welding Consumables consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Welding Consumables domestic production, consumption, key domestic manufacturers and share

Global Welding Consumables production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (K MT)

Global Welding Consumables production by Type, production, value, CAGR,  
2021-2032, (USD Million) & (K MT)

Global Welding Consumables production by Application, production, value, CAGR,  
2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Welding Consumables market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lincoln Electric, ESAB, Tianjin Bridge, Golden Bridge, ITW, Voestalpine, Shandong Juli Welding, Weld Atlantic, Kobelco, WUHAN TEMO WELDING CONSUMABLES, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Welding Consumables market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Welding Consumables Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Welding Consumables Market, Segmentation by Type:

Stick Electrodes

Solid Wires

Flux Cored Wires

SAW Wires & Fluxes

#### Global Welding Consumables Market, Segmentation by Welding Process:

Shielded Metal Arc Welding

Gas Metal Arc Welding

Flux-Cored Arc Welding

Gas Tungsten Arc Welding

Submerged Arc Welding

#### Global Welding Consumables Market, Segmentation by Chemical Composition/Base Material:

Carbon Steel Consumables

Low Alloy Steel Consumables

Stainless Steel Consumables

Heat Resisting Steel Consumables

Low Temperature Steel Consumables

Cast Iron Consumables

Nickel Alloy Consumables

#### Global Welding Consumables Market, Segmentation by Application:

Automotive

Construction

Aerospace & Defense

Shipbuilding Industry & Offshore Engineering

Pipe

Construction Machinery

Nuclear Power

Pressure Vessels

Rail Traffic

Power (Wind Turbine Towers, etc.)

#### Companies Profiled:

Lincoln Electric

ESAB

Tianjin Bridge

Golden Bridge

ITW

Voestalpine

Shandong Juli Welding

Weld Atlantic

Kobelco

WUHAN TEMO WELDING CONSUMABLES

HIT(Huatong)

Shandong Solid Solider

Gedik Welding

Jinglei Welding

Ador Welding

Malu Electrodes

D&H S?cheron Electrodes

#### Key Questions Answered:

1. How big is the global Welding Consumables market?
2. What is the demand of the global Welding Consumables market?
3. What is the year over year growth of the global Welding Consumables market?
4. What is the production and production value of the global Welding Consumables market?
5. Who are the key producers in the global Welding Consumables market?
6. What are the growth factors driving the market demand?



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