

Global Weather Balloon Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Weather Balloon market size is expected to reach \$ 35.23 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global weather balloon production reached 940,000 units, with an estimated average selling price of \$27 per unit. Weather balloons are free-rising balloons used for radiosounding, wind measurement, ozone detection, high-altitude meteorological research, and the lifting of light payloads into near-space. Essentially, they are highly elastic balloons that utilize hydrogen or helium to generate buoyancy, carrying radiosondes or other light payloads into the upper troposphere and lower stratosphere. They primarily consist of disposable natural latex sounding balloons, synthetic rubber (neoprene) balloons, and a small number of specialized high-altitude balloons; the scope excludes radiosondes, ground receiving equipment, lifting gases (hydrogen or helium), parachutes, automatic balloon-launching systems, and meteorological data services. The upstream supply chain includes natural rubber latex, vulcanizing agents, anti-aging agents, pigments, talc powder, packaging materials, and lifting gases such as hydrogen or helium. The midstream segment involves latex compounding, dipping or rotational molding, vulcanization, drying, leak detection, partial inflation testing, powdering, moisture-proof sealing, and batch performance inspection. The downstream market comprises national meteorological bureaus, air force and navy meteorological units, research institutes, universities, high-altitude atmospheric research organizations, environmental and pollution monitoring groups, aerospace testing facilities, as well as educational institutions and operators of high-altitude balloon projects. Gross profit margins range from approximately 28% to 45%.

Regionally, the Asia-Pacific market?led by China, Japan, and India?sees significant activity in meteorological, scientific research, and high-altitude balloon applications;

North America (specifically the U.S.) demonstrates strong demand across meteorology, defense, aerospace, and education sectors; the European market is primarily driven by national meteorological networks, polar and ozone observation, environmental research, and high-standard procurement; growth in the Middle East and Africa stems from the establishment of weather stations, aviation meteorology, and sandstorm monitoring; and demand in Latin America is concentrated on high-altitude meteorological observation in countries such as Brazil, Mexico, and Argentina. Looking ahead, the market is expected to exhibit trends characterized by stable demand for conventional applications, increased automation, an upgrade toward high-end missions, and the diversification of long-endurance platforms.

This report studies the global Weather Balloon production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Weather Balloon 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 Weather Balloon that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Weather Balloon total production and demand, 2021-2032, (K Units)

Global Weather Balloon total production value, 2021-2032, (USD Million)

Global Weather Balloon production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Weather Balloon consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Weather Balloon domestic production, consumption, key domestic manufacturers and share

Global Weather Balloon production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Weather Balloon production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Weather Balloon production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Weather Balloon 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 TOTEX Corporation, The Weather Balloon, Aerostar, WindBorne Systems, Hwoyee, PAWAN, Ningbo Yunhuan Electronics Group, 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 Weather Balloon market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Weather Balloon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Weather Balloon Market, Segmentation by Type:

Natural Latex Balloon

Synthetic Rubber/Neoprene Balloon

Thin-Film High-Altitude Balloon

Global Weather Balloon Market, Segmentation by Weight and Lift Capacity:

10?100 g: Wind/Cloud-Height Balloon

100?600 g: Standard Sounding Balloon

800?1,200 g: High-Altitude Sounding and Ozone Detection Balloon

1,500?6,000 g: Heavy-Payload Balloon for Scientific Research, Photography, and Near-Space Mission

Global Weather Balloon Market, Segmentation by Mission Type:

Standard

Scientific Payload

Radar Calibration

Others

Global Weather Balloon Market, Segmentation by Application:

National Meteorological Agencies

Research Institutes

Upper-Atmosphere Research Organization

Aerospace Testing Facilities

Others

Companies Profiled:

TOTEX Corporation

The Weather Balloon

Aerostar

WindBorne Systems

Hwoyee

PAWAN

Ningbo Yunhuan Electronics Group

Key Questions Answered:

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

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