

Global Weather Sounding Balloon Market Growth 2026-2032

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Abstracts

The global Weather Sounding Balloon market size is predicted to grow from US\$ 24.83 million in 2025 to US\$ 34.03 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

In 2025, global production of weather sounding balloons reached 940,000 units, with an estimated average selling price of \$27 per unit. Weather sounding balloons are free-rising balloons used for radiosonde operations, wind measurement, ozone detection, high-altitude meteorological research, and the lifting of lightweight 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 (or chloroprene rubber) balloons, and a small number of specialized high-altitude balloons; the category excludes radiosondes, ground receiving equipment, lifting gases (hydrogen or helium), parachutes, and automatic balloon-launching equipment. 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 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. The gross profit margin ranges from approximately 28% to 45%.

United States market for Weather Sounding Balloon is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Weather Sounding Balloon is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Weather Sounding Balloon is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Weather Sounding Balloon players cover TOTEX Corporation, The Weather Balloon, Aerostar, WindBorne Systems, Hwoyee, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Weather Sounding Balloon Industry Forecast" looks at past sales and reviews total world Weather Sounding Balloon sales in 2025, providing a comprehensive analysis by region and market sector of projected Weather Sounding Balloon sales for 2026 through 2032. With Weather Sounding Balloon sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Weather Sounding Balloon industry.

This Insight Report provides a comprehensive analysis of the global Weather Sounding Balloon landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Weather Sounding Balloon portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Weather Sounding Balloon market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Weather Sounding Balloon and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Weather Sounding Balloon.

This report presents a comprehensive overview, market shares, and growth opportunities of Weather Sounding Balloon market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Natural Latex Balloon

Synthetic Rubber/Neoprene Balloon

Thin-Film High-Altitude Balloon

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

Segmentation by Mission Type:

Standard

Scientific Payload

Radar Calibration

Others

Segmentation by Application:

National Meteorological Agencies

Research Institutes

Upper-Atmosphere Research Organization

Aerospace Testing Facilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TOTEX Corporation

The Weather Balloon

Aerostar

WindBorne Systems

Hwoyee

PAWAN

Ningbo Yunhuan Electronics Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Weather Sounding Balloon market?

What factors are driving Weather Sounding Balloon market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Weather Sounding Balloon market opportunities vary by end market size?

How does Weather Sounding Balloon break out by Type, by Application?

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