

Intrinsically Safe Equipment Market Size, Share & Trends Analysis Report By Zone (Zone 0, Zone 1), By Class (Class 1, Class 2), By Products, By End Use, By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/I027F2C7E7DDEN.html>

Date: May 2025

Pages: 130

Price: US\$ 4,950.00 (Single User License)

ID: I027F2C7E7DDEN

Abstracts

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Intrinsically Safe Equipment Market Trends

The global intrinsically safe equipment market size was estimated at USD 3.75 billion in 2024 and is projected to grow at a CAGR of 6.7% from 2025 to 2030. A primary driver of the intrinsically safe equipment industry is the increasing alignment of U.S. regulations with international standards.

MSHA's ACRI2001 criteria, which govern the certification of two-fault intrinsically safe equipment for underground mining, have historically diverged from the global ANSI/ISA-60079-11 standard. This discrepancy created delays in deploying new safety technologies post-2006 Mine Improvement and New Emergency Response (MINER) Act, prompting calls for harmonization from the National Academy of Sciences. Recent evaluations by the National Institute for Occupational Safety and Health (NIOSH) highlight that ANSI/ISA-60079-11 offers equivalent or greater protection levels compared to ACRI2001, particularly in energy-limiting safety factors and fault tolerance. OSHA's 1910.307 regulation further bolsters adoption by permitting intrinsically safe equipment in Class I-III hazardous locations, provided it meets ANSI/UL 913 standards. These regulatory synergies are streamlining global trade and encouraging manufacturers to design universally compliant devices, reducing development costs and accelerating market penetration.

The mining and oil, and gas sectors are adopting intrinsically safe equipment to enhance operational safety in explosive atmospheres, which is propelling the market growth. For instance, the CDC's National Institute for Occupational Safety and Health (NIOSH) has endorsed advanced wireless communication systems, such as the Dräger X-plore 8000 PAPR, which features R59550 intrinsically safe blowers certified for use in methane-rich environments. These systems enable real-time tracking and communication in underground mines, addressing a critical need highlighted by the MINER Act. Similarly, oil refineries are integrating intrinsically safe sensors and controllers to monitor volatile organic compounds, reducing ignition risks during drilling and processing. The shift from traditional explosion-proof enclosures to intrinsically safe designs—which offer orders-of-magnitude lower failure probabilities reshaping safety protocols in these industries, which further boosts the market growth.

Heightened focus on worker safety is propelling demand for intrinsically safe equipment across manufacturing and emergency services. NFPA 1970's 2023 revisions mandate that self-contained breathing apparatus (SCBA) and personal alert safety systems (PASS) used by firefighters meet non-incendive or intrinsically safe standards for Class I-III hazardous locations. Although no recorded explosions involving firefighting gear exist, the NFPA's proactive stance underscores the importance of preemptive risk mitigation. In mining, MSHA's enforcement of two-fault intrinsic safety criteria ensures that equipment like gas detectors and communication devices cannot ignite methane-air mixtures, even after multiple component failures. These protocols are reducing fatalities in gassy mines, where explosion-proof enclosures were previously the norm despite higher inherent risks.

The transition toward globally recognized intrinsic safety standards is eliminating regional market barriers. IEC 60079-11, the international benchmark for two-fault intrinsic safety, now informs U.S. regulations through ANSI/ISA adoptions, despite early disagreements over safety factors. For instance, IEC's 1.5? safety factor for energy limitation contrasts with MSHA's historical 2.25? factor, yet NIOSH analyses confirm both approaches provide adequate miner protection. This harmonization is particularly impactful in emerging economies, where adopting IEC-aligned standards allows local manufacturers to compete in export markets while attracting foreign investment in sectors like chemical processing and pharmaceuticals.

Intrinsically safe designs are becoming indispensable in firefighting gear, driven by NFPA's rigorous certification requirements, which propelled the market growth. The 2023 NFPA 1970 standard mandates that SCBA and PASS devices either meet nonincendive criteria for Division 2 hazardous locations or achieve full intrinsic safety

certification for Division 1 zones. This shift reflects an acknowledgment that traditional explosion-proof certifications do not withstand the extreme conditions of active firefighting, where equipment is exposed to heat, debris, and mechanical stress.

Global Intrinsically Safe Equipment Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global intrinsically safe equipment market report based on zone, class, products, end use, and region.

Zone Outlook (Revenue, USD Million, 2018 - 2030)

Zone 0

Zone 20

Zone 1

Zone 21

Zone 2

Zone 22

Class Outlook (Revenue, USD Million, 2018 - 2030)

Class 1

Class 2

Class 3

Products Outlook (Revenue, USD Million, 2018 - 2030)

Sensors

Detectors

Switches

Transmitters

Isolators

LED Indicators

Others

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Oil and Gas

Mining

Power

Chemical and Petrochemical

Processing

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

KSA

UAE

South Africa

Companies Mentioned

Pepperl+Fuchs Inc.
Fluke Corporation
Honeywell International Inc.
R. STAHL AG
Eaton
Emerson Electric Co.
Siemens AG
Rockwell Automation
ABB

Extronics

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