

Global Neutron Detectors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Neutron Detectors market size will reach 186.21 Million USD in 2025 and is projected to reach 331.96 Million USD by 2032, with a CAGR of 8.61% (2025-2032). Notably, the China Neutron Detectors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Neutron detectors are devices designed to detect and measure the presence of neutrons. Neutrons are subatomic particles that are electrically neutral and commonly found in the nuclei of atoms. Neutron detectors play a crucial role in various scientific, industrial, and security applications. They are used in fields such as nuclear reactors, nuclear medicine, radiation monitoring, materials science, and national security. Neutron detectors can employ different detection principles, including scintillation, gas-filled detectors, solid-state detectors, and proportional counters. These detectors work by interacting with neutrons and generating detectable signals, such as light, electrical pulses, or ionization. The ability to accurately detect and measure neutrons is essential for understanding nuclear processes, radiation safety, neutron imaging, and identifying potential threats related to nuclear materials. Neutron detectors continue to be developed and refined to improve sensitivity, efficiency, and reliability in their various applications, contributing to advancements in nuclear science, technology, and safety.

The major global manufacturers of Neutron Detectors include Photonis, Arktis Radiation

Detectors, Thermo-Fisher Scientific, Mirion Technologies, LND, ORDELA, Silverside Detectors, Kromek Group, Scientifica International, Proportional Technologies, Rotunda Scientific Technologies, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Neutron Detectors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Neutron Detectors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Neutron Detectors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Neutron Detectors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Neutron Detectors Include:

Photonis

Arktis Radiation Detectors

Thermo-Fisher Scientific

Mirion Technologies

LND

ORDELA

Silverside Detectors

Kromek Group

Scientifica International

Proportional Technologies

Rotunda Scientific Technologies

Neutron Detectors Product Segment Include:

Gas Proportional Detectors

Scintillation Detectors

Others

Neutron Detectors Product Application Include:

Homeland Security

Scientific Research

Industrial

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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