

## **X-Ray Fluorescence Analyzer Market Research Report Forecast till 2027**

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### **AVAILABLE LICENSES:**

- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

### **Report description:**

X-Ray Fluorescence Analyzer Market Research Report Forecast till 2027

#### Market Overview

The global X-Ray Fluorescence Analyzer market is projected to reach USD 1,501.0 million by 2027, growing at a CAGR of 5.2% over the forecast period. An X-Ray Fluorescence (XRF) Analyzer is a non-destructive analytical instrument used to determine the elemental composition of materials. It works by measuring the secondary (fluorescent) X-rays emitted from a sample when it is excited by a primary X-ray source, making it widely used in mining, metallurgy, and quality control.

The global X-Ray Fluorescence (XRF) Analyzer Market is driven by one of the primary factors, which is that its technology can provide concise and straightforward data analysis. Widely used in the production of cement, alloys, and other inorganic matrices, XRF is an accurate method of elemental composition determination with minimal sample preparation needed. The rapid calibration and result generation within minutes, along with the fingerprint-like precision of the method, make it an absolute necessity for the departments of research, quality control, and industrial ingenuity in the likes of the construction and metallurgy industries.

#### Key Company Development

Bruker Corporation announced the launch of the portable Counter Top XRF (CTX), a next-generation fluorescence elemental analyzer made for the energy-saving and compactness of the device in April 2018. This is a light, battery-operated, and safety-interlocked instrument that comes with a 4W X-ray source, the Bruker patented SharpBeam geometry, and a high-performance silicon drift detector (SDD) enhanced by DetectorShield. The CTX can be remotely controlled through Wi-Fi, Bluetooth, and USB, hence providing the user with ease of operation. Two years prior, in August 2017, Bruker diversified its portfolio through the acquisition of XGLab, a leader in the field of spectrometry by an X-ray method.

#### Major Players

Key competitors in the global X-ray fluorescence analyzer market are Bruker Corporation, Spectro Analytical Instruments GmbH, Thermo Fisher Scientific, Horiba, LTD., Malvern Panalytical LTD., Jeol LTD, Hitachi, Olympus Corporation, G.N.R.S.R.L. - Analytical Instruments Group, and Rigaku Corporation.

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## Report Attribute Details

- Market Size 2020: USD 1,067.1 Million
- Market Size 2027: USD 1,501.0 Million
- CAGR (2021-2027): 5.2%
- Base Year: 2020
- Market Forecast Period: 2021-2027

## Regional Insights

North America, comprising the US, Canada, and Mexico, is a major contributor to the XRF analyzer market, a trend largely attributable to the substantial demand from the metals and mining sector. In 2020, North America's XRF analyzer market was led by the US at USD 292.8 million, supported by Canada's contribution of USD 35.0 million.

Europe is gradually embracing the use of XRF analyzers that are mainly driven by the up-to-date technology and the already existing industrial reliance on material analysis. Countries like Germany, the UK, and Italy are putting a lot of money into the very latest testing solutions so as to achieve their production goals. Europe recorded steady demand, with Germany (USD 61.8 million), the UK (USD 49.9 million), and France (USD 32.1 million) driving growth.

The Asia-Pacific region is the most significant market for XRF analyzers globally. The tremendous industrial growth in China, India, and other economies is a major reason behind their success. Asia-Pacific showed significant potential, with China dominating at USD 140.6 million, followed by Japan at USD 54.3 million and India at USD 46.5 million.

In South America, countries like Brazil and Argentina are boosting the market through robust activities in metallurgy and the chemical industries. The oil and petroleum sectors also contribute significantly, with XRF analyzers used to ensure the quality and consistency of production.

The Middle East & Africa region, dominated by oil-producing economies such as Saudi Arabia and the UAE, is increasingly adopting XRF analyzers for material testing in petroleum and natural gas industries. South Africa also adds to regional demand through its mining sector. While the economy is heavily tied to energy exports, industrial diversification is creating new opportunities for XRF adoption.

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