

# **Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) X-ray Fluorescence Spectrometers Market 2018, Forecast to 2023**

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## **Abstracts**

X-ray fluorescence spectrometer is an x-ray instrument used for routine, relatively non-destructive chemical analyses of rocks, minerals, sediments and fluids. It works on wavelength-dispersive spectroscopic principles that are similar to an electron microprobe (EPMA). However, an XRF cannot generally make analyses at the small spot sizes typical of EPMA work (2-5 microns), so it is typically used for bulk analyses of larger fractions of geological materials. The relative ease and low cost of sample preparation, and the stability and ease of use of x-ray spectrometers make this one of the most widely used methods for analysis of major and trace elements in rocks, minerals, and sediment.

## **SCOPE OF THE REPORT:**

This report focuses on the X-ray Fluorescence Spectrometers in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

X-ray fluorescence spectrometers industry is dispersive relatively. Currently, there are many producing companies in the Europe X-ray fluorescence spectrometers industry. The main market players are Bruker, Thermofisher, Panalytical, SPECTRO and Oxford-Instruments. The Europe production of X-ray fluorescence spectrometers will increase to 4445 Units in 2016 from 3649 Units in 2011 with average growth rate of 4.03%. Europe X-ray fluorescence spectrometers capacity utilization rate remained at around 86.82% in 2015.

In consumption market, the Europe consumption value of X-ray fluorescence spectrometers increases with the 1.93% average growth rate. Germany, Netherlands

and United Kingdom are the mainly consumption regions due to the bigger demand of downstream applications. In 2015, these two regions occupied 44.65% of the Europe consumption volume in total.

X-ray fluorescence spectrometers have three types, which include energy dispersive X-ray fluorescence spectrometer, polarized energy dispersive X-ray fluorescence spectrometer and wavelength dispersive X-ray fluorescence spectrometer. And each type has application industries relatively. With application fields expanding of X-ray fluorescence spectrometers, the downstream application industries will need more X-ray fluorescence spectrometers. So, X-ray fluorescence spectrometers have a huge market potential in the future. Manufacturers engaged in the industry are trying to produce good performance X-ray fluorescence spectrometers through improving technology.

The major components for X-ray fluorescence spectrometers are X-ray tube, detector, semi-conductor, X-ray and gamma-ray digital signal processing electronics and others. Fluctuations in the price of the upstream product will impact on the production cost of X-ray fluorescence spectrometers. The production cost of X-ray fluorescence spectrometers is also an important factor which could impact the price of X-ray fluorescence spectrometers. The X-ray fluorescence spectrometers manufacturers are trying to reduce production cost by developing production method.

We tend to believe this industry is a rising industry, and the consumption increasing degree will show a smooth growth curve. And the price presents decreasing trend according to the economy development status and international competition. Also, it will be decreasing trend in gross margin.

The worldwide market for X-ray Fluorescence Spectrometers is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Excillum

Ketek

PNDetector

Moxtek

CANBERRA

XGLab

SGX Sensortech

Brightspec

XRF SCIENTIFIC

SPEX Europe

XIA LLC

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Detector

Power

Cooling water

Precision

Measurement Element

Price Range

Market Segment by Applications, can be divided into

Mining Industry

Metallurgical Industry

Petroleum Industry

Cement Industry

Others

There are 15 Chapters to deeply display the global X-ray Fluorescence Spectrometers market.

Chapter 1, to describe X-ray Fluorescence Spectrometers Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of X-ray Fluorescence Spectrometers, with sales, revenue, and price of X-ray Fluorescence Spectrometers, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of X-ray Fluorescence Spectrometers, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, X-ray Fluorescence Spectrometers market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe X-ray Fluorescence Spectrometers sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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