

Global and Regional X-ray Photoelectron Spectroscopy (XPS) Market Research Report 2017

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Abstracts

Summary

X-ray photoelectron spectroscopy (XPS) is a surface-sensitive quantitative spectroscopic technique that measures the elemental composition at the parts per thousand range, empirical formula, chemical state and electronic state of the elements that exist within a material. XPS spectra are obtained by irradiating a material with a beam of X-rays while simultaneously measuring the kinetic energy and number of electrons that escape from the top 0 to 10 nm of the material being analyzed. XPS requires high vacuum ($P \sim 10^{-8}$ millibar) or ultra-high vacuum (UHV; $P 10^{-9}$ millibar) conditions, although a current area of development is ambient-pressure XPS, in which samples are analyzed at pressures of a few tens of millibar. XPS can be used to analyze the surface chemistry of a material in its as-received state, or after some treatment, for example: fracturing, cutting or scraping in air or UHV to expose the bulk chemistry, ion beam etching to clean off some or all of the surface contamination (with mild ion etching) or to intentionally expose deeper layers of the sample (with more extensive ion etching) in depth-profiling XPS, exposure to heat to study the changes due to heating, exposure to reactive gases or solutions, exposure to ion beam implant, exposure to ultraviolet light.

Market Segment as follows:

By Region

Asia-Pacific

North America

Europe

South America

Middle East & Africa

By Type

Friction clutch

Electromagnetic clutch

By Application

Biomedicine

Chemical

Material

Electronic

Others

By Company

Kratos Analytical

ThermoFisher Scientific

ULVAC

Scienta Omicron

JEOL

ReVera Incorporated

VSW

STAIB Instruments

The main contents of the report including:

Section 1:

Product definition, type and application, global and regional market overview;

Section 2:

Global and regional Market competition by company;

Section 3:

Global and regional sales revenue, volume and price by type;

Section 4:

Global and regional sales revenue, volume and price by application;

Section 5:

Regional export and import;

Section 6:

Company information, business overview, sales data and product specifications;

Section 7:

Industry chain and raw materials;

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