

XPS (X-ray Photoelectron Spectroscopy) Market Analysis By Use (Element Detection, Contamination Detection, Density Estimation, Empirical Formula Determination), By Application (Healthcare, Semiconductors, Electronics, Aerospace, Automotive, Forensic Science, Food) And Segment Forecasts To 2022

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Abstracts

Global XPS (X-ray photoelectron spectroscopy) market is expected to reach USD 712.4 million by 2022. Growing application of XPS technology in different industries such as healthcare, semi conductors, aerospace, automotives, and electronics along with rising demand for research and development across all these industries is expected to drive the XPS market over the forecast period. In addition, rising popularity of hyphenated technologies and other technological advancements such as hard X-ray photoelectron spectroscopy (HAXPES) has prompted the growth of the X-ray photoelectron spectroscopy market. The ability of XPS to accurately identify contamination in the provided sample is also expected to contribute towards boosting usage rates.

Rising demand for XPS technique for drug safety and medical research is expected to serve the market as a future growth opportunity. Presence of supportive government initiatives such as the “Safe Use Initiative” by FDA and “Drug Safety Information Survey” introduced by Health Canada for creating awareness regarding medical research and development are some notable examples likely to provide manufacturers with lucrative growth opportunities.

Further key findings from the study suggest:

Element detection is identified as the most lucrative usage segment of the XPS market. Growing demand for hyphenated technologies, presence of extensive R&D conducted by pharmaceutical, semiconductors, electronics, and biotechnological companies are some factors expected to drive segment growth.

Contamination detection is also expected to gain significant market share over the forecast period owing to its growing demand in applications involving drug safety and semi conductors.

North America accounted for a share of over 40.0% in 2014 majorly on account of the presence of high demand for technologically advanced systems. Rising awareness levels of patients regarding their health, food and environment is also expected to boost regional market growth.

Asia Pacific is identified as the fastest growing regional market. Presence of large unmet needs, introduction of suitable government initiatives to increase awareness levels and improving business environments in emerging economies such as China and India are some factors attributing to the region's high market attractiveness.

Key players of this market include Thermo Fisher Scientific, Kratos Analytical, V G Scienta, Evans Analytical Group, Intertek, Yokogawa, Kett and Mitsubishi Electric.

Industry rivalry levels of the XPS market is expected to remain at a moderate level over the forecast period. Market players also engage in acquisition and consolidation exercises in an attempt to enhance product portfolio and geographic presence.

For the purpose of this study, Grand View Research has segmented the global XPS market on the basis of usage, application and region:

Global XPS Usage Outlook (Revenue, USD Million, 2012 – 2022)

Element Detection

Contamination Detection

Density Estimation

Empirical Formula Determination

Global XPS Application Outlook (Revenue, USD Million, 2012 – 2022)

Healthcare

Semiconductors

Electronics

Aerospace

Automotives

Others

Global XPS Healthcare Application Outlook (Revenue, USD Million, 2012 – 2022)

Printing

Packaging

Others

XPS Regional Outlook (Market Revenue in USD Million, 2012 – 2022)

North America

U.S.

Canada

Europe

UK

Germany

France

Rest of Europe

Asia Pacific

Japan

China

India

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East and Africa

South Africa

Rest of Middle East and Africa

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Methodology
- 1.2 Research Scope & Assumptions
- 1.3 List of Data Sources

CHAPTER 2 EXECUTIVE SUMMARY

CHAPTER 3 XPS INDUSTRY OUTLOOK

- 3.1 Market segmentation
- 3.2 Market Size and Growth Prospects
- 3.3 X-ray photoelectron spectroscopy - Market dynamics
- 3.4 Market driver analysis
 - 3.4.1 Increasing use of X-ray photoelectron spectroscopy for drug safety and medical research
 - 3.4.2 Rising popularity of hyphenated technologies
 - 3.4.3 Rapid technological advancements
 - 3.4.4 Rising demand for spectroscopy in industrial and environmental industries
- 3.5 Market restraint analysis
 - 3.5.1 Dearth of technical expertise
 - 3.5.2 Requirement for high expenditure for initial set-up and instrumentation
 - 3.5.3 Limited Awareness
- 3.6 XPS Instrumentation
 - 3.6.1 XPS Process
- 3.7 Key opportunities - Prioritized
- 3.8 Industry Analysis - Porter's
- 3.9 X-ray photoelectron spectroscopy - PESTEL analysis

CHAPTER 4 XPS APPLICATION OUTLOOK

- 4.1 X-ray photoelectron spectroscopy market share by application, 2014 & 2022
- 4.2 Healthcare
 - 4.2.1 XPS based healthcare market, 2012 – 2022 (USD Million)
 - 4.2.1.1 XPS based healthcare printing
 - 4.2.1.2 XPS based healthcare printing market, 2012-2022 (USD Million)
 - 4.2.1.3 XPS based healthcare packaging

- 4.2.1.4 XPS based healthcare packaging market, 2012-2022 (USD Million)
- 4.2.1.5 Other healthcare applications
- 4.2.1.6 Other healthcare applications market, 2012-2022 (USD Million)
- 4.3 XPS based semiconductors
 - 4.3.1 XPS based semiconductors market, 2012 – 2022 (USD Million)
- 4.4 XPS based electronics
 - 4.4.1 XPS based electronics market, 2012 – 2022 (USD Million)
- 4.5 XPS based aerospace
 - 4.5.1 XPS based aerospace market, 2012 – 2022 (USD Million)
- 4.6 XPS based automotive
 - 4.6.1 XPS based automotive market, 2012 – 2022 (USD Million)
- 4.7 Other applications
 - 4.7.1 Other applications market, 2012 – 2022 (USD Million)

CHAPTER 5 XPS USAGE OUTLOOK

- 5.1 X-ray photoelectron spectroscopy market share by use, 2014 & 2022
- 5.2 Element detection
 - 5.2.1 Element detection market, 2012 – 2022 (USD Million)
- 5.3 Contamination detection
 - 5.3.1 Contamination detection market, 2012 – 2022 (USD Million)
- 5.4 Density estimation
 - 5.4.1 Density estimation market, 2012 – 2022 (USD Million)
- 5.5 Empirical formula determination
 - 5.5.1 Empirical formula determination market, 2012 – 2022 (USD Million)

CHAPTER 6 XPS REGIONAL OUTLOOK

- 6.1 X-ray Photoelectron spectroscopy market share, by region, 2014 & 2022
- 6.2 North America X-ray photoelectron spectroscopy market
 - 6.2.1 North America X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.2.2 U.S. X-ray photoelectron spectroscopy market
 - 6.2.3 U.S. X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.2.4 Canada X-ray photoelectron spectroscopy market
 - 6.2.5 Canada X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.3 Europe X-Ray photoelectron spectroscopy market
 - 6.3.1 Europe X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.3.2 UK X-ray photoelectron spectroscopy market

- 6.3.3 UK X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.3.4 Germany X-ray photoelectron spectroscopy market
- 6.3.5 Germany X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.3.6 France X-ray photoelectron spectroscopy market
- 6.3.7 France X-ray photoelectron spectroscopy market, 2012 – 2022 (USD million)
- 6.4 Asia Pacific X-Ray photoelectron spectroscopy market
 - 6.4.1 Asia Pacific X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.4.2 Japan X-ray photoelectron spectroscopy market
 - 6.4.3 Japan X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.4.4 China X-ray photoelectron spectroscopy market
 - 6.4.5 China X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
 - 6.4.6 India X-ray photoelectron spectroscopy market
 - 6.4.7 India X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.5 Latin America X-ray photoelectron spectroscopy market
 - 6.5.1 Latin America X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.6 Brazil X-ray photoelectron spectroscopy market
 - 6.6.1 Brazil X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.7 Mexico X-ray photoelectron spectroscopy market
 - 6.7.1 Mexico X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.8 MEA X-ray photoelectron spectroscopy market
 - 6.8.1 MEA X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)
- 6.9 South Africa X-ray photoelectron spectroscopy market
 - 6.9.1 South Africa X-ray photoelectron spectroscopy market, 2012 – 2022 (USD Million)

CHAPTER 7 COMPETITIVE LANDSCAPE

- 7.1 Mitsubishi Electric
 - 7.1.1 Company Overview
 - 7.1.2 Financial Performance
 - 7.1.3 Product Benchmarking
- 7.2 Kett
 - 7.2.1 Company Overview
 - 7.2.2 Financial Performance
 - 7.2.3 Product Benchmarking
 - 7.2.4 Strategic Initiatives
- 7.3 Thermo Fisher Scientific
 - 7.3.1 Company Overview

- 7.3.2 Financial Performance
- 7.3.3 Product Benchmarking
- 7.3.4 Strategic Initiatives
- 7.4 Kratos Analytical
 - 7.4.1 Company Overview
 - 7.4.2 Financial Performance
 - 7.4.3 Product Benchmarking
 - 7.4.4 Strategic Initiatives
- 7.5 V G Scienta
 - 7.5.1 Company Overview
 - 7.5.2 Financial Performance
 - 7.5.3 Product Benchmarking
 - 7.5.4 Strategic Initiatives
- 7.6 Intertek
 - 7.6.1 Company Overview
 - 7.6.2 Financial Performance
 - 7.6.3 Product Benchmarking
- 7.7 Yokogawa
 - 7.7.1 Company Overview
 - 7.7.2 Financial Performance
 - 7.7.3 Product Benchmarking
 - 7.7.4 Strategic Initiatives
- 7.8 Evans Analytical Group (EAG)
 - 7.8.1 Company Overview
 - 7.8.2 Financial Performance
 - 7.8.3 Product Benchmarking
 - 7.8.4 Strategic Initiatives

List Of Tables

LIST OF TABLES

TABLE 1 XPS Market - Industry Summary & Key Buying Criteria, 2012 - 2022
TABLE 2 XPS market, by usage, 2012 – 2022 (USD Million)
TABLE 3 XPS market, by application, 2012 – 2022 (USD Million)
TABLE 4 XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 5 XPS – Key market driver analysis
TABLE 6 Applications of spectroscopy
TABLE 7 XPS – Key market restraint analysis
TABLE 8 XPS applications in healthcare
TABLE 9 North America XPS market, by use, 2012 – 2022 (USD Million)
TABLE 10 North America XPS market, by application, 2012 – 2022 (USD Million)
TABLE 11 North America XPS based healthcare market, by application, 2012 – 2022
TABLE 12 U.S. XPS market, by use, 2012 – 2022 (USD Million)
TABLE 13 U.S. XPS market, by application, 2012 – 2022 (USD Million)
TABLE 14 U.S. XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 15 Canada XPS market, by use, 2012 – 2022 (USD Million)
TABLE 16 Canada XPS market, by application, 2012 – 2022 (USD Million)
TABLE 17 Canada XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 18 Europe XPS market, by use, 2012 – 2022 (USD Million)
TABLE 19 Europe XPS market, by application, 2012 – 2022 (USD Million)
TABLE 20 Europe XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 21 UK XPS market, by use, 2012 – 2022 (USD Million)
TABLE 22 UK XPS market, by application, 2012 – 2022 (USD Million)
TABLE 23 UK based XPS healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 24 Germany XPS market, by use, 2012 – 2022 (USD Million)
TABLE 25 Germany XPS market, by application, 2012 – 2022 (USD Million)
TABLE 26 Germany XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 27 France XPS market, by use, 2012 – 2022 (USD Million)
TABLE 28 France XPS market, by application, 2012 – 2022 (USD Million)
TABLE 29 France XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 30 Asia Pacific XPS market, by use, 2012 – 2022 (USD million)

TABLE 31 Asia Pacific XPS market, by application, 2012 – 2022 (USD Million)
TABLE 32 Asia Pacific XPS based healthcare market, by application, 2012 – 2022
TABLE 33 Japan XPS market, by use, 2012 – 2022 (USD Million)
TABLE 34 Japan XPS market, by application, 2012 – 2022 (USD Million)
TABLE 35 Japan XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 36 China XPS market, by use, 2012 – 2022 (USD Million)
TABLE 37 China XPS market, by application, 2012 – 2022 (USD Million)
TABLE 38 China XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 39 India XPS market, by use, 2012 – 2022 (USD Million)
TABLE 40 India XPS market, by application, 2012 – 2022 (USD Million)
TABLE 41 India XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 42 Latin America XPS market, by use, 2012 – 2022 (USD Million)
TABLE 43 Latin America XPS market, by application, 2012 – 2022 (USD Million)
TABLE 44 Latin America XPS based healthcare market, by application, 2012 – 2022
TABLE 45 Brazil XPS market, by use, 2012 – 2022 (USD Million)
TABLE 46 Brazil XPS market, by application, 2012 – 2022 (USD Million)
TABLE 47 Brazil XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 48 Mexico XPS market, by use, 2012 – 2022 (USD Million)
TABLE 49 Mexico XPS market, by application, 2012 – 2022 (USD Million)
TABLE 50 Mexico XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 51 MEA XPS market, by use, 2012 – 2022 (USD Million)
TABLE 52 MEA XPS market, by application, 2012 – 2022 (USD Million)
TABLE 53 MEA XPS based healthcare market, by application, 2012 – 2022 (USD Million)
TABLE 54 South Africa XPS market, by use, 2012 – 2022 (USD Million)
TABLE 55 South Africa XPS market, by application, 2012 – 2022 (USD Million)
TABLE 56 South Africa XPS based healthcare market, by application, 2012 – 2022

List Of Figures

LIST OF FIGURES

- FIG. 1 XPS: Market segmentation
- FIG. 2 Global XPS Market Revenue, (USD Million), 2012 - 2022
- FIG. 3 XPS: Market dynamics
- FIG. 4 Key Opportunities Prioritized
- FIG. 5 XPS - Porter's analysis
- FIG. 6 XPS - PESTEL analysis
- FIG. 7 XPS market share by application, 2014 & 2022
- FIG. 8 Global XPS based healthcare market, 2012 – 2022 (USD Million)
- FIG. 9 Global XPS based healthcare printing market, 2012 – 2022 (USD Million)
- FIG. 10 Global XPS based healthcare packaging market, 2012 – 2022 (USD Million)
- FIG. 11 Global other healthcare applications market, 2012 – 2022 (USD Million)
- FIG. 12 Global XPS based semiconductors market, 2012 – 2022 (USD Million)
- FIG. 13 Global XPS based electronics market, 2012 – 2022 (USD Million)
- FIG. 14 Global XPS based aerospace market, 2012 – 2022 (USD Million)
- FIG. 15 Global XPS based automotives market, 2012 – 2022 (USD Million)
- FIG. 16 Global other applications market, 2012 – 2022 (USD Million)
- FIG. 17 XPS market share by use, 2014 & 2022
- FIG. 18 Global element detection market, 2012 – 2022 (USD Million)
- FIG. 19 Global contamination detection market, 2012 – 2022 (USD Million)
- FIG. 20 Global density estimation market, 2012 – 2022 (USD Million)
- FIG. 21 Global empirical formula determination market, 2012 – 2022 (USD Million)
- FIG. 22 XPS market share, by region, 2014 & 2022
- FIG. 23 North America XPS, 2012 – 2022 (USD Million)
- FIG. 24 U.S. XPS market, 2012 – 2022 (USD Million)
- FIG. 25 Canada XPS market, 2012 – 2022 (USD Million)
- FIG. 26 Europe XPS market, 2012 – 2022 (USD Million)
- FIG. 27 UK XPS market, 2012 – 2022 (USD Million)
- FIG. 28 Germany XPS market, 2012 – 2022 (USD Million)
- FIG. 29 France XPS market, 2012 – 2022 (USD Million)
- FIG. 30 Asia Pacific XPS market, 2012 – 2022 (USD Million)
- FIG. 31 Japan XPS market, 2012 – 2022 (USD Million)
- FIG. 32 China XPS market, 2012 – 2022 (USD Million)
- FIG. 33 India XPS market, 2012 – 2022 (USD Million)
- FIG. 34 Latin America XPS market, 2012 – 2022 (USD Million)
- FIG. 35 Brazil XPS market, 2012 – 2022 (USD Million)

FIG. 36 Mexico XPS market, 2012 – 2022 (USD Million)

FIG. 37 MEA XPS market, 2012 – 2022 (USD Million)

FIG. 38 South Africa XPS market, 2012 – 2022 (USD Million)

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