

Global Ni-NTA Sensor Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ni-NTA Sensor Chips market size was valued at US\$ 69.97 million in 2025 and is forecast to a readjusted size of US\$ 119 million by 2032 with a CAGR of 7.7% during review period.

Ni-NTA sensor chips are label-capture biosensor consumables with surfaces pre-functionalized with NTA or multi-dentate NTA ligands, activated with Ni²⁺ for reversible His-tagged protein capture. They are primarily used with label-free molecular interaction analysis systems such as SPR, HT-SPR, BLI, and GCI. Estimated gross margin is approximately 65%.

Demand side: Driven by antibody discovery, recombinant protein interactions, fragment drug screening, and early-stage biopharma QC. His-tags remain one of the most common protein expression and purification tags. Ni-NTA surfaces enable directional capture under mild conditions and can be regenerated with EDTA or imidazole, providing high throughput efficiency for method development and multi-target screening.

Supply side: Comprised of instrument ecosystem consumables (e.g., Biacore, Octet) and compatible chips from XanTec, Carterra, Nicoya, BioNavis, etc. Single-dentate NTA chips are lower priced but less stable; tri- or multi-dentate NTA, thick hydrogel, and high-throughput array chips command higher prices. Profitability primarily comes from surface chemistry, system compatibility, and batch consistency.

Future growth: Driven by increased SPR/BLI high-throughput installations, expansion of early-stage biopharma outsourcing, and ongoing replacement demand for low-drift, regenerable, and high-capacity surfaces.

This report is a detailed and comprehensive analysis for global Ni-NTA Sensor Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ni-NTA Sensor Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ni-NTA Sensor Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ni-NTA Sensor Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Ni-NTA Sensor Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ni-NTA Sensor Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ni-NTA Sensor Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies

covered as a part of this study include Cytiva, Sartorius, AMETEK Reichert, XanTec Bioanalytics, Carterra, Bruker, Nicoya, BioNavis, Biosensing Instrument, Gator Bio, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ni-NTA Sensor Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mono-NTA Surface

Tris-NTA Surface

Poly-NTA Surface

Hybrid Capture Surface

Market segment by Sensor Platform Format

SPR Cassette Chip

SPR Slide Chip

Array Sensor Chip

Dip-In Biosensor Probe

Microfluidic Cartridge Chip

Market segment by Surface Matrix

Planar Gold

Dextran Hydrogel

Polycarboxylate Hydrogel

Alginate Matrix

Nanostructured Gold

Other Matrix

Market segment by Capture Capacity Grade

Low Capacity

Medium Capacity

High Capacity

Custom Capacity

Market segment by Application

Protein Kinetics Analysis

Antibody Discovery Screening

Fragment-Based Drug Discovery

His-Tagged Protein Quantitation

Biologics QC Assays

Membrane Protein Interaction Analysis

Assay Development Services

Major players covered

Cytiva

Sartorius

AMETEK Reichert

XanTec Bioanalytics

Carterra

Bruker

Nicoya

BioNavis

Biosensing Instrument

Gator Bio

Malvern Panalytical

Bio-Rad

iClueBio

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ni-NTA Sensor Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ni-NTA Sensor Chips, with price, sales quantity, revenue, and global market share of Ni-NTA Sensor Chips from 2021 to 2026.

Chapter 3, the Ni-NTA Sensor Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ni-NTA Sensor Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ni-NTA Sensor Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ni-NTA Sensor Chips.

Chapter 14 and 15, to describe Ni-NTA Sensor Chips sales channel, distributors, customers, research findings and conclusion.

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