

# Global Ni-NTA Sensor Chips Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Ni-NTA Sensor Chips market size is expected to reach \$ 119 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Ni-NTA sensor chips are label-capture biosensor consumables with surfaces pre-functionalized with NTA or multi-dentate NTA ligands, activated with Ni<sup>2+</sup> 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 studies the global Ni-NTA Sensor Chips production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ni-NTA Sensor Chips and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ni-NTA Sensor Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ni-NTA Sensor Chips total production and demand, 2021-2032, (Units)

Global Ni-NTA Sensor Chips total production value, 2021-2032, (USD Million)

Global Ni-NTA Sensor Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ni-NTA Sensor Chips consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ni-NTA Sensor Chips domestic production, consumption, key domestic manufacturers and share

Global Ni-NTA Sensor Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ni-NTA Sensor Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ni-NTA Sensor Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ni-NTA Sensor Chips market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ni-NTA Sensor Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Ni-NTA Sensor Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Ni-NTA Sensor Chips Market, Segmentation by Type:

Mono-NTA Surface

Tris-NTA Surface

Poly-NTA Surface

Hybrid Capture Surface

#### Global Ni-NTA Sensor Chips Market, Segmentation by Sensor Platform Format:

SPR Cassette Chip

SPR Slide Chip

Array Sensor Chip

Dip-In Biosensor Probe

Microfluidic Cartridge Chip

#### Global Ni-NTA Sensor Chips Market, Segmentation by Surface Matrix:

Planar Gold

Dextran Hydrogel

Polycarboxylate Hydrogel

Alginate Matrix

Nanostructured Gold

Other Matrix

#### Global Ni-NTA Sensor Chips Market, Segmentation by Capture Capacity Grade:

Low Capacity

Medium Capacity

High Capacity

Custom Capacity

#### Global Ni-NTA Sensor Chips Market, Segmentation 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

#### Companies Profiled:

Cytiva

Sartorius

AMETEK Reichert

XanTec Bioanalytics

Carterra

Bruker

Nicoya

BioNavis

Biosensing Instrument

Gator Bio

Malvern Panalytical

Bio-Rad

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### Key Questions Answered:

1. How big is the global Ni-NTA Sensor Chips market?
2. What is the demand of the global Ni-NTA Sensor Chips market?
3. What is the year over year growth of the global Ni-NTA Sensor Chips market?
4. What is the production and production value of the global Ni-NTA Sensor Chips market?
5. Who are the key producers in the global Ni-NTA Sensor Chips market?
6. What are the growth factors driving the market demand?

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