

Global High Temperature Gas Nitriding Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High Temperature Gas Nitriding Service market size was valued at US\$ 156 million in 2025 and is forecast to a readjusted size of US\$ 232 million by 2032 with a CAGR of 5.8% during review period.

High Temperature Gas Nitriding Service is a professional thermochemical surface heat treatment outsourcing service. It places ferrous workpieces (alloy steel, cast iron, tool steel, mold steel) inside sealed furnaces, feeds nitrogen-containing gas (mainly ammonia NH_3) and heats to a high nitriding temperature range of 480-580°C, decomposes ammonia to generate active nitrogen atoms, which diffuse into the metal surface to form hard nitride layers (compound layer + diffusion layer).

This full-service covers pre-treatment cleaning, fixture loading, atmosphere control, staged high-temperature holding, controlled cooling, post-process inspection, and technical testing reports. The core goals are to drastically raise surface hardness, boost wear resistance, fatigue strength and corrosion resistance, with minimal workpiece dimensional distortion compared to quenching hardening.

Service suppliers provide batch mass production, small-batch customized processing, sample trial nitriding, and technical process optimization for automotive, machinery, mold, hydraulic and aerospace components.

North America and Europe are the most important high-value regions for High Temperature Gas Nitriding Service because demand is concentrated in aerospace, defense, medical devices, precision machinery, stainless steel components, oil & gas and high-performance industrial parts. These regions also have a stronger

concentration of certified heat-treatment suppliers, aerospace approvals, and metallurgical process-control capability.

Asia-Pacific is the fastest-growing region. China, Japan, South Korea and India have large automotive, machinery, toolmaking, stainless steel processing and electronics manufacturing bases. However, for the high-temperature solution-nitriding niche, Asia-Pacific's share is still developing because the process requires higher technical control, vacuum/high-temperature furnace capability and advanced metallurgical know-how.

This report is a detailed and comprehensive analysis for global High Temperature Gas Nitriding Service market. Both quantitative and qualitative analyses are presented by company, 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 High Temperature Gas Nitriding Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global High Temperature Gas Nitriding Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global High Temperature Gas Nitriding Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global High Temperature Gas Nitriding Service market shares of main players, in revenue (\$ Million), 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 High Temperature Gas Nitriding Service

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 High Temperature Gas Nitriding Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bodycote, Aalberts Surface Technologies / Paulo, Nitrex, DOWA Thermotech, Parker Trutec, IBC Coatings Technologies, Bluewater Thermal Solutions, H?RTHA GROUP, R?BIG Heat Treatment, Groupe Thermi-Lyon, etc.

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

Market segmentation

High Temperature Gas Nitriding Service 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hard Gas Nitriding (Pure Nitriding)

Gas Nitrocarburizing (Soft Nitriding)

Market segment by Heating Temperature Grade & Process Temperature Interval

Medium-High Temperature Gas Nitriding (480?520?C, Standard Hard Nitriding)

Elevated High-Temperature Gas Nitriding (530?550?C, Accelerated Deep Diffusion)

High-Temperature Gas Nitrocarburizing (550?580?C)

Austenitic High-Temperature Gas Nitriding (>600?C, Special High-Temp Variant)

Market segment by Application

Aerospace & Defense

Medical Devices

Automotive & Mobility

Industrial Machinery

Oil & Gas Equipment

Others

Market segment by players, this report covers

Bodycote

Aalberts Surface Technologies / Paulo

Nitrex

DOWA Thermotech

Parker Trutec

IBC Coatings Technologies

Bluewater Thermal Solutions

H?RTHA GROUP

R?BIG Heat Treatment

Groupe Thermi-Lyon

Hanomag Heat Treatment Group

Advanced Heat Treat Corp.

Solar Atmospheres

Wallwork Group

Braddock Metallurgical

ThermTech

Peters? Heat Treating

Specialty Steel Treating

Hightemp Furnaces Ltd.

Metex Heat Treating

Jiangsu Fengdong Thermal Technology

Thermal-Vac

Hudapack Metal Treating

National Heat Treat

Tamayakin Co., Ltd.

M&K Heat Treatment

HEF Group

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe High Temperature Gas Nitriding Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of High Temperature Gas Nitriding Service, with revenue, gross margin, and global market share of High Temperature Gas Nitriding Service from 2021 to 2026.

Chapter 3, the High Temperature Gas Nitriding Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and High Temperature Gas Nitriding Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of High Temperature Gas Nitriding Service.

Chapter 13, to describe High Temperature Gas Nitriding Service research findings and conclusion.

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