

# High Nitrogen Steels Structure Properties Manufacture Applications Engineering Materials

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## High Nitrogen Steels Structure Properties

Basic research and new manufacturing methods have led to high nitrogen steels (HNS), a promising new group of materials for use in advanced applications in mechanical and chemical engineering. The book deals with the atomic structure, constitution, properties, manufacturing and application of martensitic, austenitic, duplex and dualphase steels of superior strength and corrosion resistance.

## High Nitrogen Steels - Structure, Properties, Manufacture

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Hans Berns (auth.) Basic research and new manufacturing methods have led to high nitrogen steels (HNS), a promising new

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High-nitrogen steels are preferable to traditional steels in many respects: specifically, their yield point is four times higher, with a distinctive combination of other properties; expensive alloying elements such as Ni, Mo, Co, and W are required in smaller quantities, if at all; and effective alloying with nontraditional elements (such as Ca, Zn, and Pb) is possible.

## **High-Nitrogen Steel | SpringerLink**

Get this from a library! High nitrogen steels : structure, properties, manufacture, applications. [V G Gavriljuk; Hans Berns]

## **High nitrogen steels : structure, properties, manufacture**

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## **Amazon.com: High Nitrogen Steels: Structure, Properties**

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Summary High nitrogen stainless steels are not new types of stainless steels, but their consumption is increasing. Nitrogen can be a suitable substitute for nickel; the latter has a high relative price, deleterious effect on mechanical properties, and is allergenic and probably carcinogenic.

## **A Look at High Nitrogen Stainless Steels**

Biancaniello et al., "Powder Metallurgy High Nitrogen Stainless Steel", 5.sup.th International Conference on High Nitrogen Steels, Espoo-Finland & Stockholm-Sweden, May 1998. Janowski et al., "The Effect of Backfill and Atomizing Gas on the Powder Porosity and Mechanical Properties of 304L Stainless Steel", P/M in Aerospace, Defense and ...

## **High nitrogen stainless steel - The United States of ...**

The modified structure of tool steels with nitrogen was shown by their increased functional properties, i.e. higher brittle cracking resistance and higher fatigue durability in the range of a low...

## **Influence of increased nitrogen content on tool steels ...**

Introduction. Basic research and new manufacturing methods have led to high nitrogen steels (HNS), a promising new group of materials for use in advanced applications in mechanical and chemical engineering. The book deals with the atomic structure, constitution, properties, manufacturing and application of matrensitic, austenitic, duplex and dualphase steels of superior strength and corrosion resistance.

## **High Nitrogen Steels | SpringerLink**

High nitrogen stainless steel (HNS) is a nickel free austenitic stainless steel that is used as a structural component in defence

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applications for manufacturing battle tanks as a replacement of the existing armour grade steel owing to its low cost, excellent mechanical properties and better corrosion resistance.

## **Welding of nickel free high nitrogen stainless steel ...**

AL-6XN<sup>®</sup> alloy (UNS N08367) is a low carbon, high purity, nitrogen-bearing "super-austenitic" stainless alloy. The AL-6XN alloy was designed to be a seawater resistant material and has since been demonstrated to be resistant to a broad range of very corrosive environments.

## **AL-6XN<sup>®</sup> - Rolled Alloys, Inc.**

Powder metallurgy steels Vancron 40, Vanax, and Nitrobe77 are given high nitrogen by nitriding the powder prior to the powder being consolidated and forged into the final steel. Vancron 40 and Vanax have a high nitrogen and vanadium content to form hard vanadium nitrides for good wear resistance.

## **Nitrogen-Alloyed Knife Steels - Knife Steel Nerds**

By using this model, the properties of the nitrided steels based on the phase constitution, surface nitrogen concentration, nitrogen concentration profile, case depth, as well as growth kinetics can be simulated as a function of the process parameters (temperature, time, and the nitriding atmosphere).

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## **Nitriding fundamentals, modeling and process optimization**

New high nitrogen austenitic stainless steel AF932N<sup>®</sup> (UNS S31010) Alloy AF932N<sup>®</sup> (UNS S31010) is the latest evolution of high nitrogen austenitic stainless steels. It contains nitrogen...

## **Foroni SPA - Foroni SPA**

High-strength low-alloy steel (HSLA) is a type of alloy steel that provides better mechanical properties or greater resistance to corrosion than carbon steel. HSLA steels vary from other steels in that they are not made to meet a specific chemical composition but rather specific mechanical properties.

## **High-strength low-alloy steel - Wikipedia**

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The adverse effects of nickel ions being released into the human body have prompted the development of high-nitrogen nickel-free austenitic stainless steels for medical applications. Nitrogen not only replaces nickel for austenitic structure stability but also much improves steel properties. Here we review the harmful effects associated with nickel in medical stainless steels, the advantages of nitrogen in stainless steels, and emphatically, the development of high-nitrogen nickel-free ...

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