

neodymium deposits



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AI Overview

Neodymium deposits are primarily found within the rare earth minerals bastnäsite and monazite. While neodymium exists in trace amounts across the Earth's crust, these minerals represent the main economically viable sources. China is the leading producer of neodymium, followed by Australia, the US, and Myanmar.

Key Points:

Occurrence:

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Wikipedia https://en.wikipedia.org/wiki/Neodymium

Neodymium

Neodymium is fairly common—about as common as cobalt, nickel, or copper—and is widely distributed in the Earth's crust. Most of the world's commercial ...

Neodymium magnet

Neodymium fluoride

Isotopes of neodymium

Bastnäsite

People also ask

Where is neodymium commonly found?

China

"Neodymium is primarily mined as part of a conglomerate with other rare earth elements in the monazite and bastnäsite mineral deposits. Historically, a single mine in California produced most of



 **Advanced Magnet Source**  
<https://advancedmagnetsource.com> › industry-news-blog

## Neodymium - A Key Rare Earth Element

Who has the richest rare earth deposits? ^

### China

As illustrated in the map below, based on data from the latest U.S. Geological Survey report on rare earths, **China** holds the world's largest rare earth reserves, estimated at 44 million metric tons. It also leads in production, generating 270,000 metric tons in 2024. Mar 6, 2025

 **Newsweek**  
<https://www.newsweek.com> › map-countries-largest-rare-...

## Map Shows World's 10 Largest Rare Earth Element Reserves - Newsweek

What minerals contain neodymium? ^

Neodymium is present in significant quantities in the minerals **monazite and bastnäsite**. Neodymium is not found naturally in metallic form or unmixed with other lanthanides, and it is usually refined for general use.

 **Wikipedia**  
<https://en.wikipedia.org> › wiki › Neodymium

## Neodymium - Wikipedia

In which country is neodymium found? ^

Supply risk

**Top 3 producers**

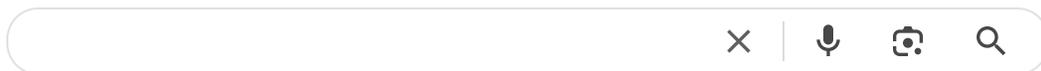
**1) China 2) Russia 3) Malaysia**

Top 3 reserve holders

1) China 2) CIS Countries (inc. Russia) 3) USA

Political stability of top producer

24.1



 The Royal Society of Chemistry  
<https://www.rsc.org> › [periodic-table](#) › [neodymium](#)

## Neodymium - Element information, properties and uses | Periodic Table

Is neodymium expensive? ▼

What are 5 common uses of neodymium? ▲

### Top 8 Uses for Neodymium Magnets

- Magnetic Resonance Imaging System. ...
- Magnotherapy. ...
- Audio Equipment. ...
- Lifting Large Loads. ...
- Permanent Magnet Motors. ...
- Magnetic Separation Technology. ...
- Microwave Communication Technology. ...
- Magnetization Technology.

 Stanford Magnets  
<https://www.stanfordmagnets.com> › [top-8-uses-for-neod...](#)

### Top 8 Uses for Neodymium Magnets

Does the Philippines have rare earth minerals? ▼

Who mines neodymium? ▼

What is the most valuable rare earth? ▼

Where can I mine neodymium? ▼

What color is neodymium? ▼

What is the ore of neodymium? ▼

Search bar with icons for close, voice search, image search, and search.



How much neodymium is left in the world? ▼

Does neodymium rust? ▼

Is neodymium safe for humans? ▼

What are the benefits of neodymium? ▼

What devices use neodymium magnets? ▼

Feedback



Mining.com

https://www.mining.com › u-s-critical-materials-unveils...

### US Critical Materials reports highest-grade neodymium ...

May 8, 2025 — The Salt Lake City-based company announced that its prime mineral claims contain an average **neodymium** concentration of 1.2% (12,000 ppm), a ...

## Images



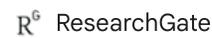
Locations of Deposits



Locations of Deposits



Map showing the global distri...



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### Neodymium - A Key Rare Earth Element



The Earth & I  
<https://www.theearthandi.org> › post › estimated-2-34-bi...

## Estimated 2.34 billion Metric Tons of Rare Earth Minerals ...

Feb 21, 2024 — **Neodymium is a magnetic chemical element with the symbol Nd**, in solid state. It is a rare earth mineral used in the technology industry.



rareearths.com  
<https://rareearths.com> › neodymium

## Neodymium - Rare Earths

The Bayan Obo deposit in China, Mountain Pass in the US, and Mt. Weld in Australia are currently **important neodymium mining sites**.



Innovation News Network  
<https://www.innovationnewsnetwork.com> › highest-grad...

## Highest-grade rare earth deposit to date identified in the US

Feb 3, 2023 — We have confirmed that **Sheep Creek is the highest-grade rare earth deposit in the United States**, with a multibillion-dollar resource value.



Geomega Resources Inc.  
<https://geomega.ca> › montviel-one-of-the-world-most-si...

## Montviel, one of the world most significant deposits ...

These latest results confirm that it is **one of the world's most significant deposits of neodymium** that can be accessed and exploited in the short term.

### Videos :



7:16

#### Neodymium: The metal driving the energy transition – DW ...

DW  
Apr 15, 2024



51:51

#### Rare Earth Mining: The Key to our Technological Future | FD ...

YouTube · Free Documentary - Engineering  
Aug 11, 2023



58:23

YouTube · GeoscienceAustralia  
Dec 7, 2020

10 key moments in this video ▾

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Investing News Network

<https://investingnews.com> > rare-earth-reserves-country

## Rare Earths Reserves: Top 8 Countries | INN

Feb 5, 2025 — **Pela Ema, one of the world's largest ionic clay deposits**, will produce the four critical



Britannica

<https://www.britannica.com> > Science > Chemistry

## Neodymium | Rare Earth Element, Uses ...

Neodymium (Nd), chemical element, a rare-earth metal of the lanthanide series of the periodic table. Neodymium is a ductile and malleable silvery white metal. It oxidizes readily in air to form an oxide, Nd<sub>2</sub>O<sub>3</sub>, which easily spalls, exposing the metal to further oxidation. The metal must be stored.



New World Encyclopedia

<https://www.newworldencyclopedia.org> > entry > Neody...

## Neodymium - New World Encyclopedia

Neodymium (chemical symbol Nd, atomic number 60) is a silvery metallic element that is a member of the lanthanide series of chemical elements. It is considered one of the "rare earth metals," but it is not...



The Royal Society of Chemistry

<https://periodic-table.rsc.org> > element > neodymium

## Neodymium - Element information, properties ...

Group, Lanthanides, Melting point, 1016°C, 1861°F, 1289 K. Period, 6, Boiling point, 3074°C, 5565°F, 3347 K. Block, f, Density (g cm<sup>-3</sup>), 7.01. Atomic number, 60, Relative atomic mass, 144.242. State at 20°C, Solid, Key isotopes, <sup>142</sup>Nd. Electron configuration, [Xe] 4f<sup>4</sup>6s<sup>2</sup>, CAS number, 7440-00-8.

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