

Forum:[Hack Forums](#)

Thread: [Oxygen Facts \(very cool thread!\)](#)

Lowkey - October 4, 2025, 12:13 pm

Oxygen is the third-most abundant element in the universe (after hydrogen and helium).

Under standard conditions it's a diatomic gas (O₂), but in the upper atmosphere a three-atom form, ozone (O₃), blocks most solar UV-C and UV-B.

Liquid oxygen is pale blue and strongly paramagnetic, it will bridge the gap between the poles of a small magnet.

Roughly 99 % of the oxygen on Earth is locked in oxides and silicate minerals of the crust and mantle; only about 0.01 % circulates as free O₂ in air and water.

Photosynthetic microbes began releasing O₂ ~2.4 billion years ago in the "Great Oxidation Event," raising atmospheric levels from <0.001 % to today's ~21 %.

Human blood is 98–99 % saturated with oxygen at sea level; above ~7,000 m (23,000 ft) ambient pressure is so low that saturation can fall below 70 % without supplemental O₂.

A single mature tree produces, on average, enough O₂ (~100–260 L per day) to meet the respiratory needs of two adults.

Oxygen is mildly toxic: breathing 100 % O₂ at 1 atm for 24 h causes lung irritation; under pressure it can cause central-nervous-system seizures ("oxygen toxicity").

The hottest oxy-acetylene flame reaches ~3,500 °C (6,300 °F), hot enough to vaporize steel.

Solid oxygen can exist in six different crystal phases; the highest-pressure phase (?-oxygen) becomes metallic and may occur deep inside giant planets.

I would highly recommend looking up oxygen and what it does and how it works for the human body. Could save you or a relatives life one day!

Jamika - October 5, 2025, 12:27 am

Nice topic , we miss a scientific sub forum

Lowkey - October 5, 2025, 8:59 am

(Oct 5, 2025 12:27 AM)Jamika Wrote: [\[CITE\]](#) Nice topic , we miss a scientific sub forum
Nobody is ready for the oxygen subforum and it's ability to heal the human body.

Mr. Node.js - October 5, 2025, 9:06 am

I didn't realize how much goes on behind the scenes , from its role in the Great Oxidation Event to how our bodies use it, and even its risks under high pressure. Thanks for sharing .

Lowkey - October 5, 2025, 9:07 am

(Oct 5, 2025 09:06 AM)Mr. Node.js Wrote: [\[CITE\]](#) I didn't realize how much goes on behind the scenes , from its role in the Great Oxidation Event to how our bodies use it, and even its risks under

high pressure. Thanks for sharing .

The deeper you dive the more your brain will break and slowly slip into clinical insanity.

Yin Yang - October 5, 2025, 9:32 am

It's interesting how pure oxygen is flammable too

Lowkey - October 5, 2025, 9:48 am

(Oct 5, 2025 09:32 AM)Yin Yang Wrote: [\[CITE\]](#) It's interesting how pure oxygen is flammable too
Isn't it?

Fascinating topic.

Hackers - October 5, 2025, 9:52 am

(Oct 5, 2025 12:27 AM)Jamika Wrote: [\[CITE\]](#) Nice topic , we miss a scientific sub forum
I want science back, but it only works with threads like this one. Sticking to objective statements, verifiable facts, etc.
It's a good thread, a lot of people don't even breathe properly & oxygen levels / intake can have a huge effect.

(Oct 5, 2025 08:59 AM)Lowkey Wrote: [\[CITE\]](#) Nobody is ready for the oxygen subforum and it's ability to heal the human body.

[Health Wise](#)

Maybe it can go in here - meditation, exercise, sleep, and a lot of things can be related to breathing techniques & oxygen levels.

Jamika - October 5, 2025, 10:07 am

(Oct 5, 2025 09:07 AM)Lowkey Wrote: [\[CITE\]](#) The deeper you dive the more your brain will break and slowly slip into clinical insanity.
And this proves my opinion that people who don't think and just eat and sleep live longer for a reason

7 - October 5, 2025, 10:09 am

Not really suprised about oxygen being flammable tbh. But metallic oxygen is interesting. Im still stuck with the lattice

Lowkey - October 5, 2025, 10:23 am

Not the dumbest person on HF commenting on my thread. GET OUT you brainless leech.

(Oct 5, 2025 10:09 AM)7 Wrote: [\[CITE\]](#) Not really suprised about oxygen being flammable tbh. But metallic oxygen is interesting. Im still stuck with the lattice
Please be careful. At some point down that rabbit hole things start to get very scary in real life.

Oh_Well - October 5, 2025, 11:58 am

Very informative post! Thanks for sharing!

plops - October 5, 2025, 12:13 pm

Crazy to think only a fraction of a percent is free air. Almost unbelievable lol