

Title: Is compressed air more buoyant

Generated on: 2026-05-16 14:21:27

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Secondly, as the sub rises, the air in the ballast tanks expands and pushes more water out faster, making the boat even more buoyant and pushing it to the ...

It turns out that the pressure only a foot down is so much greater than the pressure at the surface that the resulting force (buoyancy) is enough to counteract the force of gravity.

A container of compressed air is less buoyant in water than the same container filled with normal air at atmospheric pressure. What determines buoyancy is the weight of an object vs. the weight of water ...

Does compressed air float better? Compressed air will have a greater downwards weight, so a buoyant bottle of compressed air has less net buoyancy than an evacuated one: the upwards buoyant forces ...

The submarine is filled with air (like a balloon), so you expect it would float on top of the water were it not for the action of its propeller: even though the steel walls of the submarine make it heavy, this added ...

Since weight is the measure of an object's gravitational pull, the compressed air does not weigh more. The difference is in the density of the air.

Buoyancy depends on volume and so an object's buoyancy reduces if it is compressed and increases if it expands. The buoyancy also changes if the ...

However, when a steel cylinder is empty, it is less negatively buoyant than a steel tank which is full with compressed air. The amount of buoyancy of dive tanks is ...

To surface, compressed air is pumped into the tanks, expelling the water and decreasing the submarine's density, allowing it to rise. Hot air balloons also demonstrate buoyancy in air.

Whether the fluid is displaced by a vacuum (in a light, rigid container) or compressed air makes no difference,



the bouyant force is the same.

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