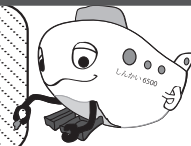


What is "Water Pressure"?



It's because of "Water Pressure".

"Water Pressure"?

Huh?

One balloon is shrinking. What makes this happen?

They must have been the same size a while ago?

Air balloon

Water balloon

This is the "Deep sea" at depths of 1,000 meters...

GODAC Newsletter

No. 2

This newsletters provides informations about the ocean, the earth and JAMSTEC's news!

Why?

But why did only the "air balloon" shrink?

Air?

There is air in my pressure hull-inhabitable space-, but I never shrink. Why is that?

Air

Water pressure has the ability to compress gases. This means air can be shrunk into a smaller volume with water pressure.

Everything in the deep sea is under a great deal of water pressure.

Depth 1,000m

Depth 6,500m

Water balloon

Air balloon

Water pressure

This is "Water Pressure".

The deeper we go under the sea, the greater pressure of the water pushing in from all directions.

Water pressure

Water pressure has the ability to compress gases. This means air can be shrunk into a smaller volume with water pressure.

At a depths of 6,500 meters, the water pressure on your fingertip equals the weight of a small car.

About 780kg!

Gotcha!

I understand that deep-sea is an extreme water pressure world!

I want to learn more about the mysterious wonders of deep sea!

Water pressure around the hull reaches 90,000 tons at a depth of 6,500m.

90,000 tons!? That's amazing!!

Pressure hull with air

The other part is full with water

internal diameter of 2.0 m

image of inside hull

Your pressure hull is constructed from a strong titanium alloy which can bear the big stress of water pressure.