

What happens when a balloon deflates?

The work done on the gas was calculated to be around 261.77J. As the balloon deflates, the air rushes out, causing its internal energy to be converted to kinetic energy. In addition, the energy transferred to it by the balloon is also converted to kinetic energy. This kinetic energy, in turn, is transferred to the car and is used to propel it.

Does a balloon deflate a gas?

Likewise, as the balloon deflates, it does work on the gas, transferring back its energy to the gas. However this energy is slightly less than the energy that was given to the balloon, because some energy was used to deform the balloon, a phenomenon known as the Mullins' Effect. The work done on the gas was calculated to be around 261.77J.

What happens to kinetic energy when a balloon explodes?

In addition, the energy transferred to it by the balloon is also converted to kinetic energy. This kinetic energy, in turn, is transferred to the car and is used to propel it. (Note that when the air is being expelled out, some energy will be lost due to internal viscosity)

Why is elastic energy stored in a balloon so high?

The elastic energy stored in the balloon is equal to the inside pressure minus the outside pressure, integrated with respect to the volume change. Maybe that is one reason why your estimated stored elastic energy came out so high. Chet Is enthalpy just the sum of internal energy and work against external pressure?

Is energy stored in a rubber balloon a function of surface area?

I'm assuming a rubber balloon material. A first thought was that the energy stored in the material could be a simple function of surface area. However there is an easy counter-example. Consider a spherical rubber balloon enclosing an incompressible fluid such as water.

How much energy does a balloon deflate?

Hence the work done should be the balloon's change in elastic potential energy. From the diagram, I calculated this amount to be about 263.48J. Hence the total energy should be around 657.84J. Likewise, as the balloon deflates, it does work on the gas, transferring back its energy to the gas.

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Energy. Energy can be defined as the capacity to supply heat or do work. One type of work (w) is the process of causing matter to move against an opposing force. For example, we do work when we inflate a bicycle tire--we move ...

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Energy close energyEnergy can be stored and transferred. Energy is a conserved quantity. can be described as being in different "stores". Energy cannot be created or destroyed. Energy can be ...

Energy cannot be created or destroyed, it can only be transferred from one store to another. There are many different energy stores and four ways in which it can be transferred. You can use transfer or sankey diagrams to represent energy ...

Energy can also be stored in different stores, like the thermal store of a hot object, or the kinetic store of a moving object. The unit of energy is the joule close joule The unit of measurement ...

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Energy stores and transfers In a nutshell. Energy cannot be created or destroyed, it can only be transferred from one store to another. There are many different energy stores and four ways in which it can be transferred. You can use ...

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When a balloon is inflated, the elastic material of the balloon stretches to accommodate the increasing volume

of air inside. The stretched rubber stores elastic potential energy. When the balloon is released, the ...

Changes in energy stores - AQA Types of energy store Energy can be described as being in different "stores". It cannot be created or destroyed but it can be transferred, ...

Renewable-energy storage can help humanity reduce its fossil fuel use and combat climate change. Here are some of the best and most promising methods for storing renewable energy.

An object can store energy as the result of its position. For example, the heavy ball of a demolition machine is storing energy when it is held at an elevated position. This stored ...

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