

# List of energy properties

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### Types of energy and their characteristics

The following thermodynamic properties are typically used to describe the interactions between a system and its surroundings:

Energy is a fundamental property present in the universe. It is conserved, which implies that its total amount remains constant even if it changes shape. It can also be transformed, going from one type to another, such as kinetic energy to potential energy.

Additionally, it can be transferred between different bodies, such as in collisions between objects. Finally, energy tends to degrade, turning into less usable forms, such as heat. There are various types of energy, such as mechanical, internal, electrical, thermal, electromagnetic, chemical and nuclear, each with specific characteristics.

These properties and types of energy have practical applications in different areas, such as agriculture, industry, medicine, the environment and cultural heritage.

It is also important to mention that there are diverse energy sources, from electricity to renewable energies, and that education around energy is essential to understand how it works.

Energy, as a fundamental property, has a series of characteristics that define it and make it unique in the universe. Next, we will discover the main properties of energy and how they manifest themselves in different forms and contexts.

One of the fundamental properties of energy is its conservation. This means that the total amount of energy in the universe remains constant over time, although it can change form.

In other words, energy is neither created nor destroyed, but rather transformed from one type to another. For example, the kinetic energy of a moving object can be converted to potential energy when it is raised to a certain height.

For example, electrical energy can be transformed into thermal energy in an electrical resistance, or nuclear energy can be converted into electrical energy in a nuclear power plant.

Energy can also be transferred from one body to another, meaning it can move from one object to another or from one system to another. This energy transfer can occur in different ways, such as in the case of one ball hitting another in a game of pool.

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The study of energy leads us to recognize the existence of different types, each with unique characteristics and applications in the world around us. Below is a description of some of these types of energy and how they manifest:

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