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The tension a material resists is a key property for anyone wanting to know how much stress a material can withstand without fracturing or disintegrating. This article will help you to understand the difference between tensile and compressive strength of materials. It will also show you which tests are used to measure such properties. The stress-strain curve of a material is the plot of its linear elastic modulus vs. strain. These models are also known as Hooke's law. Hooke's law makes the assumption that the stress is linearly proportional to strain for small strains. Once a material has reached its elastic limit, it will begin to deform plastically, this means it will no longer go back to its previous shape when released after being stretched or compressed. Thus the point on the stress-strain curve determines if a material will break before or after reaching its yield strength depending on whether it is being subjected to tension or compression respectively (the latter breaking before the former). Oxidation is a specific type of fatigue failure for metals which can occur in a variety of circumstances, such as vibration and fatigue due to prolonged high levels of stress. An objective way to determine the occurrence of such failure is through the use of the Tensile Strength Test for metal parts. The tensile strength ("Y") is defined as: where:

The development of methods that measure mechanically and quantitatively material properties at non-destructive laboratory scales has led to the widespread and convenient use and distribution of tensile strength measurements (in particular). Tensile strength can be determined using simple mechanical testing equipment, or by using acceleration techniques on the part which results in shape changes on an optical microscope scale. The ASTM International E1080 standard was developed to measure the tensile strength of materials, both in tension and compression. The test method is basically a simple laboratory procedure which involves providing a load to the specimen, measuring the deflection of microscopic features on its surface under load, and calculating the force required to obtain that deflection. For high quality standards that have been developed for different materials under conditions common in industry, see

The methods used for testing are generally able to determine whether testing will actually yield an accurate result, particularly with regard to material properties which are not well-defined. The procedures also permit comparisons between properties of different materials under controlled conditions. In the most common case, the specimen is loaded at a constant rate until it fails or exceeds a predetermined yield point. The stress is then linearly plotted against the strain, giving a curve from which the Young's Modulus and ultimate tensile strength can be determined. This would be suitable for many structures and components, and there is no doubt that such methods can provide results that are representative of reality. However, this type of test result will not distinguish between materials with different strengths under identical conditions; some may change dimensions more than others while failing, thus yielding more stress than another material which holds its shape better under identical conditions.

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