

Tensile Testing Lab report

Introduction

Tensile testing is one of the most important aspects of mechanical testing. This test involves the application of tensile (pulling) force to a material and measure the materials response. By doing so, it allows the greater understanding of the properties of the material. These properties include; Force, stress and strain, yield strength, fracture strength, ultimate tensile strength, necking, and maximum force before it fractures. Knowing these properties are vital for engineers as they can decide whether to use that material as the desired one for their project, structure or automobiles. Almost every structure and/or automobile's material has had the tensile test before it is released to the public.

In order to successfully test a materials tensile strength, certain equipment is needed and variables need to be controlled and maintained for the experiment to be consistent and accurate. Tensile testing is done on electromechanical or universal testing instruments/machines.



Figure 1 - example of a universal testing machine

A sample metal is placed within the clamps (shown in figure 1) and the machine is started where it then slowly but surely pulls on both sides of the material and causes a tensile force in the middle of the material. As the force is applied to material, it undergoes several stages before it fractures. Initially the material will appear to have no changes (this phase is called elastic strain). Elastic strain is when the material will come back to its original structure once the force is released. But, if enough force is applied, it's yield strength will be achieved and the material will begin non-reversibly deforming and as force increase, the more it stretches where it then begins necking and therefore reaches its maximum stretching ability before it fractures.

After the material has fractured the experiment is over and the data collected needs to be worked with in order to calculate and draw the stress and strain graph.

Materials

- Safety glasses
- Universal testing machines
- Power source
- Mild steel sample
- Aluminum sample



Figure 2 - Diagram of Tensile Deformation of Materials phases and

Tensile Test Lab Report

Xiaolong Qi



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