

IZOD IMPACT TEST

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MATERIAL SELECTION AND ANALYSIS

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ABSTRACT

The energy absorbed by the material during collision can be determined by the impact test. This energy is used to find out the toughness, impact strength, fracture resistance, impact resistance or fracture resistance of the material depending on the test that was performed and the characteristic that is to be determined. These values are essential for selection of materials which will be used in applications that needs the material to experience very rapid loading processes for example vehicular collisions. Here impact strength of copper and mild steel are determined experimentally and the results are compared.

KEYWORDS: Impact strength, Copper, Mild steel, Izod impact tester

INTRODUCTION

The Impact Test is used to examine the mechanics of the material present when the shock loading is experienced, which can cause the specimen to deform, fracture, or break completely. To perform this test, the specimen is placed in a holding fixation with a geometry and orientation, which is determined by the type of test used, and then the known weight is applied by the pendulum which is released from a known height which collides and applies sudden force on the specimen. This friction between the weight and the sample is usually destroys the sample, but the energy transfer between the two is used to determine the fracture mechanics of the material.

Types of impact tests

For a single impact test there are three important types of test they are Charpy V-notch test, the Izod test and the Tensile Impact test. These three tests determine the same properties of the material but vary in the orientation of the test model which causes the model to be stressed in various directions and a known weight applied from a known height which hits

Izod Test Report Manual

Ian Pickup



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