

The Changes in ISO 6892-1:2016 Metallic Materials Tensile Testing Standard

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Abstract— Today, as the current standard tensile test for metallic materials ISO 6892-1 standard are used. The English version of the standard in 2009 and the Turkish version in 2011 were published. The English version was renewed in 2016. In this study, we aimed to summarize the major changes made in this standard. In this way, it is aimed to be transmitted detailed and accurate information for related person.

Keywords— ISO 6892-1, Tensile test, Metallic materials

I. INTRODUCTION

Along with the developing technology, tensile testing practice and calculation differences in results bring about changes in standards. When you search at the changes in the standard of tensile testing in metallic materials in our country; TS 138 EN 10002-1(1996, 2004) and TS EN ISO 6892-1(2011) are published. The English version of the standard is published in ISO 6892-1(2009), and it is published as TS EN ISO 6892-1(2011) by the Turkish standard TSE. In 2016, ISO 6892-1(2016) was revised and published, but Turkish has not been published yet [1-3].

In the metal industry, at room temperature, the tensile test standard comes out against ISO 6892-1(2016) and ASTM E8/8M(2016). ASTM standards are used in America, whereas, ISO standards are used in Europe. Japanese Industrial Standards (JIS) and GBT (Chinese Standards) in Asia have adopted the ISO 6892-1 standard.

The tensile test for metallic materials at ISO 6892-1 ambient temperatures is a very detailed standard. This standard describes the method to be applied in the experiment, the calculations used, the results to be reported, as well as the equipment to be used for the test. The changes in this standard are likely to affect everyone in the metal industry.

This study has highlighted important changes between the ISO 6892-1(2016) standard and the previous ISO 6892-1(2009) standard [1,2]. On this study, it is aimed to give detailed and accurate information to the persons who are related to the emphasis of differences of this standard which is used in metal industry.

II. THE CHANGES OF ISO 6892-1:2016

Its summary is given below those changes between 2016 to 2009 version of ISO 6892-1 tensile testing method of test at room temperature of metallic materials

A. New terms and definitions

The 2016 version of standard is added the following term and definitions.

Item 3.12 computer-controlled tensile testing machine: machine for which the control and monitoring of the test, the measurements, and the data processing are undertaken by computer.

Item 3.13 modulus of elasticity (E): quotient of change of stress ΔR and change of percentage extension Δe in the range of evaluation, multiplied by 100 %.

$$E = \frac{\Delta R}{\Delta e} \cdot 100\%$$

Item 3.14 default value: lower or upper value for stress respectively strain which is used for the description of the range where the modulus of elasticity is calculated

Item 3.15 coefficient of correlation (R^2): additional result of the linear regression which describes the quality of the stress-strain curve in the evaluation range

Item 3.16 standard deviation of the slope (S_m): additional result of the linear regression which describes the difference of the stress values from the best fit line for the given extension values in the evaluation range

Item 3.17 relative standard deviation of the slope (S_{rel}): quotient of the standard deviation of the slope and the slope in the evaluation range, multiplied by 100 %.

$$S_{rel} = \frac{S_m}{E} \cdot 100\%$$

The symbols of item 4 in the standard are added the new terms defined in item 3 [1,3].

B. The changes in test speeds

Test speeds or test rates in heading 10.3 of ISO 6892-1:2016 standard have been changed and the speeds are explained in more detail as Method A1, A2 and B, respectively. The extension speed of the method in the 2009 version of the ISO 6892-1 standard was defined as two methods in the 2016 version. It is expressed as Method A1 (Closed loop strain control) and Method A2 (Open loop strain control).

Closed loop strain control, method A1, is the strain rate control based on the feedback of the data obtained from the instrument's extensometer. The application for this method is given by the tolerances of the required 4 step speed standard. The standard speed steps are schematically shown in figure 1 [5-7]. The other method, Method A2, open loop strain control,

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Table of Contents Iso 6892 1 2016 Metallic Materials Tensile Testing

1. Understanding the eBook Iso 6892 1 2016 Metallic Materials Tensile Testing
 - The Rise of Digital Reading Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Advantages of eBooks Over Traditional Books
2. Identifying Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Iso 6892 1 2016 Metallic Materials Tensile Testing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iso 6892 1 2016 Metallic Materials Tensile Testing

- Personalized Recommendations
 - Iso 6892 1 2016 Metallic Materials Tensile Testing User Reviews and Ratings
 - Iso 6892 1 2016 Metallic Materials Tensile Testing and Bestseller Lists
5. Accessing Iso 6892 1 2016 Metallic Materials Tensile Testing Free and Paid eBooks
 - Iso 6892 1 2016 Metallic Materials Tensile Testing Public Domain eBooks
 - Iso 6892 1 2016 Metallic Materials Tensile Testing eBook Subscription Services
 - Iso 6892 1 2016 Metallic Materials Tensile Testing Budget-Friendly Options
 6. Navigating Iso 6892 1 2016 Metallic Materials Tensile Testing eBook Formats
 - ePub, PDF, MOBI, and More
 - Iso 6892 1 2016 Metallic Materials Tensile Testing Compatibility with Devices
 - Iso 6892 1 2016 Metallic Materials Tensile Testing Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Highlighting and Note-Taking Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Interactive Elements Iso 6892 1 2016 Metallic Materials Tensile Testing
 8. Staying Engaged with Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iso 6892 1 2016 Metallic Materials Tensile Testing
 9. Balancing eBooks and Physical Books Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iso 6892 1 2016 Metallic Materials Tensile Testing
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Setting Reading Goals Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Iso 6892 1 2016 Metallic Materials Tensile Testing

- Fact-Checking eBook Content of Iso 6892 1 2016 Metallic Materials Tensile Testing
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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