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ICS 43.120
CCS T 40

TCSAE

ASSOCIATION STANDARD

TCSAE 52-2016

Test method of mechanical properties for metallic sheets at high strain rates

金属板材在高应变速率下的力学性能测试方法——液压伺服控制系统及其他控制系统

(English Translation)

Issued on: May 26, 2016 **Implemented on: May 26, 2016**

Issued by: China Society of Automotive Engineers

Preview: page 1 of 3 shown, 17 in the full document. Complete English PDF, instant download:
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Table of Contents

[Preview only]
1 Scope
1.1 Scope description
1.2 Application Notes
2 Standard References
3 Symbols, names and units
4 Principles
5 Test equipment
6 Sample
7 Test requirements
8 Test report

1 Foreword

TCSAE 52-2016 was issued by China Society of Automotive Engineers on 26 May 2016 and took effect the same day.

The TCSAE prefix marks a association standard, adopted voluntarily.

The document runs to 17 pages in English translation.

2 Scope Preview

This standard specifies the principles, symbols and descriptions, specimens and devices for tensile testing of automotive sheet metal at high strain rates. This standard is applicable to automotive sheet metal with a thickness of 3mm or less (including 3mm). The strain rate required for the test ranges from 10-2s-1 to 103s-1, and the test temperature is from 10°C to 35°C (or determined by both parties). This standard applies to hydraulic servo test systems. Unless otherwise stated, the different strain rates selected for sheet metal of the same specification shall be performed on the same test equipment. Note 1: When the strain rate of the test is less than 10-2s-1, the comparison test can be carried out using a quasi-static tensile tester.

TCSAE 52-2016 falls under ICS 43.120, in the field of road vehicle engineering.

This catalogue holds 32 other TCSAE standards in that field.

In this catalogue, TCSAE standards carry edition years from 2015 to 2020.

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3 About this standard

Issued by: China Society of Automotive Engineers

English translation: about 17 pages

Chinese original: about 26,274 characters

4 Related standards

Standards on related subjects:

QC/T 1029-2016 - Polypropylene (PP) honeycomb board products for automobiles

QC/T 797-2008 - Material identification and marking of automotive plastic, rubber and thermoplastic elastomer parts

5 Classification and status

International classification (ICS): 43.120

Chinese Standard Classification (CCS): T 40

Prefix TCSAE: association standard, adopted voluntarily.

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