Chinastandards.org

ICS 43.120
CCS T 40

TCSAE

ASSOCIATION STANDARD

TCSAE 50-2016

Dent Resistance Test Standard of Automobile Outer Panel

汽车外覆盖件抗凹性能测试标准

(English Translation)

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

Issued by: China Society of Automotive Engineers

Preview: page 1 of 4 shown, 11 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/tcsae-50-2016

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
1.1 Scope description
1.2 Application Notes
2 Normative references
3 Terms and definitions
3.2 Abbreviations
3.3 Symbols
4 Test conditions and requirements
4.1 Test environmental conditions
4.2 Instrumentation
4.3 Test equipment
4.4 Test requirements
4.5 Sealing material
4.6 Electrical transient conduction emission along the power line
4.7 Electromagnetic radiation immunity
4.8 Electrostatic discharge immunity
4.9 Magnetic field immunity
5 Test method
5.1 Basic requirements
5.2 Performance test
5.3 Safety test
5.4 Environmental adaptability test
5.5 EMC test
5.6 NVH test
5.7 Reliability test
5.8 Immunity of portable transmitter
5.9 Electrical transient conduction immunity along power lines
6 Test report and results
6.1 Overview
6.2 Seal position
6.3 Leakage noise of the whole vehicle

Preview: page 2 of 4 shown, 11 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/tcsae-50-2016

6.4 Local leakage noise
6.5 Basic principles of working condition formulation
6.6 Transmission gear selection
7 Test report
7.1 Preliminary preparations
7.2 Formal measurement process
7.3 Forward and reverse loading
8 Evaluation parameters
8.2 Weighted sound pressure level
8.3 Cumulative sound pressure difference value
8.4 Speech intelligibility index
8.5 Total Loudness
8.6 Sharpness
9 Record

1 Foreword

TCSAE 50-2016 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 11 pages in English translation.

2 Scope Preview

This specification specifies the relevant definitions, principles, test equipment, test procedures, and tests for the test methods for the anti-concave performance of automotive exterior covers. Data processing method. This specification applies to passenger cars and light commercial vehicles, including body-in-white and related paint parts.

TCSAE 50-2016 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.

3 About this standard

Issued by: China Society of Automotive Engineers

English translation: about 11 pages

Preview: page 3 of 4 shown, 11 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/tcsae-50-2016

Chinese original: about 16,157 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.

Preview: page 4 of 4 shown, 11 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/tcsae-50-2016