# Test code of seating comfort for automobile seats

#### 1. Scope

This standard specifies the test methods for evaluating the general performance of automobile seats on their seating comfortability.

Remarks: In this standard, units, numerical values and equations given in { } are conventional units, shown for reference.

### 2. Purpose

This standard is developed for standardizing the test methods to be used for testing the seating comfortability of automobile seats and for ensuring an adequate evaluation of the seating comfortability of these seats.

#### 3. Definitions

Definitions of principal terms used in this standard shall be pursuant to JASO Z 215 (Glossary of Terms Relating to Seats of Automobiles).

# 4. Test types and their applicability

# 4.1 Types of tests

Tests shall be classified by the as shown in **Table 1** according to the objectives of the tests and the characteristics of the test piece to be tested.

# 4.2 Test applicability

The tests shall be applied as shown in **Table 2** depending on the piece to be tested.

Table 1 Test types

Type of test	Test objective	Characteristics to examine	
Load	Deflecting performance	Load-deflection curve	
		Deflection	
		Static spring constant	
	Damping performance	Hysteresis loss coefficient	
Hardness Distribution	Hardness distribution	Hardness distribution curve	
Surface Hardness	Softness	Load-sinkage curve	
		Sinkage	
		Static spring constant	
Vibration	Vibration performance	Acceleration transmissibility characteristics or displacement transmissibility characteristics	
		Resonance frequency	
		Resonance magnification	
		Dynamic spring constant	
Damping	Damping performance	Damping waveform	
		Logarithmic decrement	
		I .	

Table 2 Test applicability

Type of test Type of test piece	Seat cushion	Seat back
Load	0	0
Hardness Distribution	0	0
Surface Hardness	0	0
Vibration	0	-
Damping	0	_

Remarks: O Test applicable

Normative references: JIS D 4607 Three dimensional manikins for use in defining automobile seating

accommodations (3DM-JM50)

JIS Z 8401 Rules for rounding off of numerical values

JASO Z 009 Hip point of automobile seat

JASO Z 215 Glossary of terms relating to seats of automobiles
ISO 6549 Road vehicles – Procedure for H-point determination