Automotive parts - Non lead wheel balance weights - Part 2: Adhesive type

1. Scope

This standard specifies lead free wheel balance weights (hereinafter referred to as balance weights), specifically, adhesive type balance weights, for automobiles.

2. Normative reference

The following standards, when referred to in the standard, constitute a part of the specifications of this standard. As required, the most recently updated version of the applicable standard (including addenda) shall be applied.

JIS B7721	Verification and calibration of the force measuring system of the tension/compression testing machines
JIS Z0237	Testing methods of pressure-sensitive adhesive tapes and sheets
JIS Z1541	High potential pressure sensitive adhesive double coated tapes
JIS Z2371	Methods of salt spray testing

3. Designation of each part

The names of the portions of the balance weight shall be as shown in **Figure 1**.

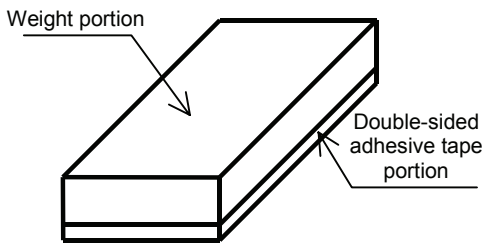

Figure 1 Adhesive type balance weight

Note: The shape shown in the figure is an example.

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4. Mass

The mass classification of balance weights shall be as shown in **Table 1**.

Table 1 Adhesive type balance weight types

Unit: g

Mass	5 to 30 (increments of 5)[a)]	35 to 45 (increments of 5)[a)]	50 to 160 (increments of 5)[a)]
Tolerance	±1.0	±2.0	±2.5
Note: [a)] Further classification shall be as agreed upon between the supplying and receiving parties concerned.			

5. Performance

5.1 Retention performance

The retention performance shall be such that, when the test specified in **8.1** is conducted, either of the shear adhesion force or pull-off adhesion force specified in **Table 2** will be satisfied.

Table 2 Retention performance

Unit: N/cm^2

Item	Performance (min.)
Shear adhesion force	20
Pull-off adhesion force	3

5.2 Corrosion resistance

When the test specified in **8.2** is conducted, it shall take 96 hours or more to develop red rust. In cases where higher corrosion resistance is required, corrosion resistance specifications shall be as agreed upon between the supplying and receiving parties concerned.

6. Appearance

The balance weight shall be free from cracks, pinholes, shrinkage, flaws, or other defects that will adversely affect strength.

7. Materials

The materials for the weight portion shall be free from lead.

8. Tests

8.1 Retention performance

A retention performance test shall be conducted under the conditions specified in **Table 3**.

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