

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

METHOD OF ADHESION TEST FOR PLATED PRODUCTS

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1. PURPOSE

This standard aims at examining adhesion of plating layer after performing the specified adhesion test to the plating layer on the metallic and non-metallic (plastic) base.

2. SCOPE

This standard specifies the method of adhesion test for plating applied to the metallic and non-metallic (plastic) base.

3. DEFINITIONS

3.1. Adhesion

Adhering force between plating layers and between plating layer and base.

3.2. Thermal cycle test

A test to examine the adhesion of plating while testing the plastic specimen by maintaining the temperature at two or more kinds of the specified temperature and at room temperature alternately.

3.3. Saw-grind test

A test to be performed to the products having plating layer on base metal and to examine the adhesion of plating layer when sectioning the product at right angles to the plating layer using a saw.

4. TEST PIECE

4.1. The test piece shall be tested as the finished parts if possible.

4.2. When size and shape of the parts affect the test of the finished parts, the test piece shall be constructed by sectioning the parts. In this case, the edge may not deform and not be overheated. And sectioned surface shall be protected by an appropriated method (adhesive tape or protective coating) during the test.

4.3. For the first approval, at least 3 test pieces and for the routine quality control, at least 1 test piece shall be tested.

5. TESTING METHOD

5.1. Thermal cycle test

5.1.1. Set the temperature of the equipment at the specified temperature.

5.1.2. Prepare the test piece.

5.1.3. Put the test piece into the equipment.