

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

ALKALI SOLUBILITY TEST METHOD OF ZINC COATED PANEL

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1. PURPOSE

This standard specifies the method of evaluating solubility of the zinc coat, which is formed in the pre-treatment process, by alkali.

2. SCOPE

This standard applies to all kinds of steel used for the vehicle body on which zinc coat is formed and is to evaluate solubility of the zinc coat by alkali when the body surface is alkalified by electrolysis in electro-deposition painting.

3. DEFINITION OF TERMS

3.1. Alkali solubility: Solubility of the zinc coat in alkali solution

4. TEST EQUIPMENT AND CHEMICALS

4.1. Equipment

4.1.1. Fume hood

It is used to discharge the toxic gas generated during alkali solubility measurement.

4.1.2. Vernier calipers

Instrument to precisely measure the size of the test piece

4.1.3. Desiccator

Equipment to store and cool the test piece under the normal temperature

4.1.4. Scale

Capable of measuring at least down to 1/10,000g

4.1.5. Scissors

Use to cut the test piece into a certain size

4.1.6. PH meter

Equipment to adjust the PH of the dissolved reagent

4.1.7. Oven

Use to dry the test piece

4.1.8. Glass bar

Use to mix the dissolved reagent

4.1.9. 2 ℓ plastic or glass beaker

4.1.10. Stop watch