

JIS

JAPANESE INDUSTRIAL STANDARD

**Electroplated coatings
of silver
for decorative purposes**

JIS H 8623—1993

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Electroplated coatings of silver
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1. Scope This Japanese Industrial Standard specifies the electroplated coatings of silver of 0.5 μm or over in thickness of the significant surface ⁽²⁾ (hereafter referred to as the "electroplated coatings") conducted on metallic and nonmetallic basis materials for decorative purposes ⁽¹⁾.

Notes ⁽¹⁾ The decorative purposes herein mean mainly uses for tableware, personal ornaments, personal sundries, etc. so that the appearance, corrosion resistance, wear resistance, etc. shall be regarded as essentials to the coatings.

⁽²⁾ The significant surface herein means a surface essential for serviceability and/or appearance.

Remarks 1. This Standard shall apply only to formed parts.

2. The following standards are cited in this Standard:

- JIS H 0400 Glossary of terms used in electroplating
- JIS H 0404 Graphical symbol for electroplated coating
- JIS H 8501 Methods of thickness test for metallic coatings
- JIS H 8502 Methods of corrosion resistance test for metallic coatings
- JIS H 8503 Methods of wear resistance test for metallic coatings
- JIS H 8504 Methods of adhesion test for metallic coatings
- JIS K 8943 Ammonium sulfide solution
- JIS Z 2244 Method of Vickers hardness test
- JIS Z 2251 Method of Knoop hardness test
- JIS Z 8902 Xenon standard white light source
- ISO 4522: 1985 Metallic coatings – Test methods for electro-deposited silver and silver alloy coatings –
Part 1: Determination of coating thickness
Part 2: Adhesion tests
- ISO 4538: 1978 Metallic coatings – Thioacetamide corrosion test (TAA test)

2. Definitions For the main terms used in this Standard the definitions in JIS H 0400 apply.

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3. Symbol For the symbol of electroplated coatings, the symbol D indicating decorative purposes shall be prefixed to the chemical element symbol Ag of electroplated coatings of silver with a hyphen "-" between them, and others shall be in accordance with JIS H 0404.

4. Quality

4.1 Appearance of electroplated coatings The appearance of electroplated coatings shall be tested in accordance with 7.2, and the significant surface of electroplated coatings shall be free from defects of electroplated coatings such as rough surface, burnt deposits, crack, pit, development of dendrite at any edge, exposure of basis material or electroplated undercoatings, etc., symptoms of inferiority in adhesion such as blister, peeling, etc., and further stains, flaws, etc.

Remarks: When gloss, brightness, color, etc. are specified, the matter shall be as agreed upon between the purchaser and supplier.

4.2 Thickness of electroplated coatings The thickness of electroplated coatings shall be specified as agreed upon between the purchaser and supplier. The thickness test shall be conducted in accordance with 7.3, and the thickness shall be at least a specified thickness of electroplated coatings at any position on the significant surface.

Informative reference: The classification of the minimum thickness of electroplated coatings which is generally used, shall be as given in Informative reference Table 1.

Informative reference Table 1. Classification by the minimum thickness of electroplated coatings

Minimum thickness of electroplated coatings	μm
0.5, 1.0, 3.0, 5.0, 10.0, 15.0, 20.0, 30.0, 50.0	

4.3 Silver content of electroplated coatings When the silver content of electroplated coatings is specified, it shall be tested in accordance with 7.4, and the silver content shall conform to the specified value.

4.4 Degree of porosity of electroplated coatings When the degree of porosity of electroplated coatings is specified, it shall be tested in accordance with 7.5, and the degree of porosity shall conform to the specified value.

4.5 Tarnish resistance of electroplated coatings When the tarnish resistance is specified for electroplated coatings processed by tarnish preventive treatment after electroplating, the tarnish resistance of electroplated coatings shall be tested in accordance with 7.6, and the tarnish resistance shall conform to the specified value.

4.6 Corrosion resistance of electroplated coatings When the corrosion resistance of electroplated coatings is specified, it shall be tested in accordance with 7.7, and the corrosion resistance shall conform to the specified value.