



Standard Specification for Electrodeposited Coatings of Rhodium for Engineering Use¹

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1. Scope

1.1 This specification covers requirements for electrodeposited coatings of rhodium used for engineering purposes.

1.2 Coatings of rhodium covered by this specification are usually employed for their corrosion resistance, stable electrical contact resistance, wear resistance, reflectivity, and heat resistance.

1.3 **Appendix X1** covers some typical applications for electrodeposited rhodium.

1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 The following documents form a part of this document to the extent referenced herein.

2.2 *ASTM Standards:*²

B183 Practice for Preparation of Low-Carbon Steel for Electroplating

B242 Guide for Preparation of High-Carbon Steel for Electroplating

B252 Guide for Preparation of Zinc Alloy Die Castings for Electroplating and Conversion Coatings

B254 Practice for Preparation of and Electroplating on Stainless Steel

B281 Practice for Preparation of Copper and Copper-Base Alloys for Electroplating and Conversion Coatings

B322 Guide for Cleaning Metals Prior to Electroplating

B343 Practice for Preparation of Nickel for Electroplating with Nickel

B456 Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

B481 Practice for Preparation of Titanium and Titanium Alloys for Electroplating

B482 Practice for Preparation of Tungsten and Tungsten Alloys for Electroplating

B487 Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of Cross Section

B507 Practice for Design of Articles to Be Electroplated on Racks

B567 Test Method for Measurement of Coating Thickness by the Beta Backscatter Method

B568 Test Method for Measurement of Coating Thickness by X-Ray Spectrometry

B571 Practice for Qualitative Adhesion Testing of Metallic Coatings

B602 Test Method for Attribute Sampling of Metallic and Inorganic Coatings

B697 Guide for Selection of Sampling Plans for Inspection of Electrodeposited Metallic and Inorganic Coatings

B762 Test Method of Variables Sampling of Metallic and Inorganic Coatings

E8 Test Methods for Tension Testing of Metallic Materials

2.3 *Military Standards:*

MIL-R-46085 Rhodium Plating, Electrodeposited³

QQ-N-290 Nickel Plating, Electrodeposited³

¹ This specification is under the jurisdiction of ASTM Committee B08 on Metallic and Inorganic Coatings and is the direct responsibility of Subcommittee B08.04 on Precious Metal Coatings.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.