



## ASTM B-571

### **Standard Practice for Qualitative Adhesion Testing of Metallic Coatings**

This practice describes simple, qualitative tests for evaluating the adhesion of metallic coatings on various substances. These tests are useful for production control and for acceptance testing of products. If more than one test is used, failure to pass any one test is considered unsatisfactory. In many instances, the end use of the coated article or its method of fabrication will suggest the technique that best represents functional requirements. For example, an article that is to be subsequently formed would suggest a draw or bend test; an article that is to be soldered or otherwise exposed to heat would suggest a heat-quench test. If a part requires baking or heat treating after plating, adhesion tests should be carried out after such post-treatment.

Here is the list of tests that we are able to perform:

- Bend Tests
- Burnishing Test
- Chisel-Knife Test
- Draw Test
- File Test
- Grind-Saw Test
- Heat-Quench Test
- Impact Test
- Peel Test
- Scribe-Grind Test



## ASTM B-571 Continued

Several of the tests are limited to specific types of coatings, thickness ranges, ductilities and compositions of the substrate. Limitations will be discussed during the quoting process.

If evaluation of adhesion is required, it is recommended to have one or more of the listed tests performed. These tests have varying degrees of severity; and one might serve to distinguish between satisfactory and unsatisfactory adhesion in a specific application.

If you have any questions concerning this particular ASTM method, please feel free to give our office a call at (800) 334-5432 or email us your inquiry at [info@nhml.com](mailto:info@nhml.com).

**(B571, B-571, B 571)**

ASTM Standard B571, 2007, "Standard Practice for Qualitative Adhesion Testing of Metallic Coatings," ASTM International, West Conshohocken, PA, 2007, DOI: 10.1520/B571-97, [www.astm.org](http://www.astm.org).

**New Hampshire Materials Laboratory, Inc**  
**[www.nhml.com](http://www.nhml.com) • [info@nhml.com](mailto:info@nhml.com)**  
**Tel: 800-334-5432 or 603-692-4110 • Fax: 603-692-4008**