



Designation: B 820 – 9804

Standard Test Method for Bend Test for Determining the Formability of Copper and Copper Alloy Spring Material Strip¹

This standard is issued under the fixed designation B 820; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This test method ~~covers~~ describes the testing technique of bend testing copper and copper alloy strip samples to determine its product formability or its ability to resist cracking when forming a bend around a specific radius. The criterion for failure is the occurrence of cracks found on the outer radius of curvature (convex).

1.2 This bend test is limited to strip from 0.003 to and including 0.031 in. thick. (0.076 to and including 0.79 mm).

1.3 The size of the forming radii used in this test shall be 0.005 to 0.250 in. (0.127 to and including 6.35 mm).

1.4 Units—The values stated in inch-pounds are to be regarded as ~~the~~ standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered 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 in the current issue of the ~~Annual Book of ASTM Standards~~ form a part of this specification to the extent referenced herein:

¹ This test method is under the jurisdiction of ASTM Committee ~~B-5~~ B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.06 on Methods of Test.

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*A Summary of Changes section appears at the end of this standard.