

Designation: A980/A980M - 11 A980/A980M - 19

Standard Specification for Steel, Sheet, Carbon, Ultra High Strength Cold Rolled¹

This standard is issued under the fixed designation A980/A980M; 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-Scope*

- 1.1 This specification covers a cold rolled ultra high strength carbon steel sheet in coils or cut lengths. The product is available in fourfive strength levels. The steel's strength is obtained by water quenching from an austenitic temperature resulting in a martensitic microstructure. This product is intended for miscellaneous applications where ultra high strength, weight saving, and good weldability are important.
- 1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.
- 1.3 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

A568/A568M Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for

3. Ordering Information

- 3.1 It is the purchaser's responsibility to specify in the purchase order all ordering information necessary to purchase the needed material. Examples of such information include, but are not limited to:
 - 3.1.1 ASTM specification number and year of issue,
 - 3.1.2 Name of material (cold rolled ultra high strength steel sheet),
 - 3.1.3 Grade (see Table 1),
 - 3.1.4 Specify oiled or not oiled as required, sist/0c20288d-a73d-45b8-b8cc-9b2a11b2c8ce/astm-a980-a980m-19
 - 3.1.5 Dimensions (thickness, width and whether cut lengths or coils),
 - 3.1.6 Coil size (must include inside diameter, outside diameter, and maximum mass),
 - 3.1.7 Quantity,
 - 3.1.8 Application (show part identification and description), and
 - 3.1.9 Special Requirements (if required), and required).
 - 3.1.10 Cast or heat analysis report (request if required).

4. Materials and Manufacture

- 4.1 *Melting Practice*—This sheet shall be produced from aluminum killed steel.
- 4.2 Annealing—The material shall be continuous annealed to austenitic temperatures and water-quenched.

5. General Requirements

5.1 Materials furnished under this specification shall conform to the applicable requirements of the current edition of Specification A568/A568M unless otherwise provided herein.

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.19 on Steel Sheet and Strip.

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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.