



AEROSPACE MATERIAL SPECIFICATION	AMS5046™	REV. F
	Issued	1985-10
	Revised	2022-09
Superseding AMS5046E		
Carbon Steel, Sheet, Strip, and Plate (SAE 1020 and 1025) (Composition similar to UNS G10200 and G10250)		

RATIONALE

AMS5046F is the result of a Five-Year Review and update of the specification. The revision prohibits unauthorized exceptions (3.6, 4.4.3, 5.1.1, 8.4), updates composition and allows for the reporting of additional elements (3.1, 3.1.2), updates microstructure/controlling chemistry requirements (3.1.1, 3.3.3, 4.2.1, 4.4.1), revises heat treatment spec (3.2), incorporates strain rate control (3.3.1.2), updates bending requirement (3.3.2), and allows prior revisions (8.5).

1. SCOPE

1.1 Form

This specification covers two types of carbon steel in the form of sheet, strip, and plate.

1.2 Application

These products have been used typically for use in fabrication of fittings, but usage is not limited to such applications. These products are not typically used for deep forming or cupping operations.

1.3 Classification

The steels covered by this specification are classified as follows:

Type 1: 0.17 to 0.23 carbon (SAE 1020)

Type 2: 0.22 to 0.28 carbon (SAE 1025)

1.3.1 Unless a specific type is ordered, either type may be supplied.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

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