

RAW MATERIALS / FERROUS

FNHA-2-A-352.00

CARBON STEEL C1045 - COLD-DRAWN FLAT**1. SCOPE**

This standard specification covers carbon steel bars in hot rolled, cold drawn, or heat treated condition.

2. DRAWING SPECIFICATIONS

2.1 Versatile Only: The following material codes apply to Carbon Steel C1045:

Cold - Drawn, Flat

2.2 NH Only:

CD Flat AISI 1045

3. RELATED SPECIFICATIONS**3.1 REFERENCE STANDARDS**

86050124(FNHA-2-A-027.00) - General Requirements for Carbon and Alloy Steel Bars, Hot Rolled and Cold Finished.
ASTM A575 - Specification for Steel Bars, Carbon, Merchant Quality, M-Grades

3.2 This standard replaces the following company standard:

Versatile MS-608

4. CHEMICAL REQUIREMENTS

The material must meet the following requirements:

ELEMENT	COMPOSITION, %
Carbon	0.43-0.50
Manganese	0.60-0.90
Phosphorus, max	0.040
Sulfur, max	0.050

5. MECHANICAL REQUIREMENTS

The following mechanical requirements shall be met or exceeded:

Tensile Strength, psi	85,000
Yield Strength, psi	73,000
Elongation in 2", %	12
Rockwell Hardness (typical)	87 Rockwell B

6. GENERAL DELIVERY REQUIREMENTS

6.1 See Appendix No. 1, standard 86050124 (FNHA 2-A-027.00).

6.2 Winnipeg only: When specifying material according to this standard specification use the appropriate Bulk Material Code.

7. KNIFE BACK MATERIAL

7.1 The preferred knife back material is cold-drawn 1045 flat, carbon steel, per this specification

					NAME	STD AISI 1045 CD FL		
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7.2 The following alternate materials have been used as knife back material, and are acceptable as substitute knife back material:

- 7.2.1 Hot-rolled flat AISI 1045
Hot-rolled flat AISI 1040

7.2.2 ASTM A575 grade 1031 modified to meet the following physical requirements:

Tensile strength	85,000 to 95,000 psi
Elongation	15 to 25 percent
Hardness	85 to 94 Rockwell B

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