

RAW MATERIALS / FERROUS

FNHA-2-A-256.00

HOT ROLLED ABRASION RESISTANT STEEL PLATE**1. SCOPE**

This standard covers the requirements for hot-rolled abrasion resistant steel plate of commercial quality having specified chemistry and hardness ranges to provide superior wear resistance compared to low carbon and high-strength low-alloy plate steel. The specified chemistry and hardness ranges will have detrimental effects on formability and weldability when compared to low carbon and high-strength low-alloy plate steel.

2. APPLICATION

This specification includes material requirements, ordering information and quality requirements to be used by Engineering, Purchasing and Manufacturing.

3. DRAWING SPECIFICATION

HR Plate AR 185/250 BHN

4. REFERENCED DOCUMENTS

4.1 FNHA Engineering Standard 86050123 (FNHA 2-A-028.00): General Requirements for Rolled Steel Plates.

5. ORDERING INFORMATION

5.1 Hot-rolled Plate, Abrasion Resistant

5.2 Dimensions (Thickness, width, and length)

5.3 Condition: Material to this specification is furnished in the hot-rolled condition. Pickled (or blast cleaned) must be specified, if required.

5.4 Cast or heat analysis report (request, if desired)

6. CHEMICAL AND PHYSICAL REQUIREMENTS

6.1 Carbon, % 0.30 to 0.50

6.2 Manganese, % 1.20 to 2.00

6.3 Brinell Hardness aim for 185 / 250
(aim for 20 point BHN range within a sheet)

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7. INSPECTION REQUIREMENTS

7.1 Check manganese and carbon content on chemistry certification.

7.2 Check Brinell hardness.

7.3 If chemistry certification meets specification and Brinell hardness is within 160 to 250 range, material is acceptable.

7.4 If Brinell hardness is less than 160, deviation is required for acceptance.

7.5 Deviation procedure: Send sample out for chemical analysis.

7.5.1 If chemistry does not meet specification, material is rejected.

7.5.2 If chemistry meets specification, follow standard deviation request procedure.

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