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## ASTM A387 / A387M - 03 Standard Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum

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Abbreviation

ASTM A387 / A387M - 03

Valid from

10/09/2003

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Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

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Cited By

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Description

This specification covers carbon steel plates intended primarily for service in welded pressure vessels where improved notch toughness is important.

Scope

This specification covers chromium-molybdenum alloy steel plates intended primarily for welded boilers and pressure vessels designed for elevated temperature service.

Plates are available under this specification in several grades having different alloy contents as follows:

Grade	Nominal Chromium Content, %	Nominal Molybdenum Content, %
2	0.50	0.50
12	1.00	0.50
11	1.25	0.50
22, 22L	2.25	1.00
21, 21L	3.00	1.00

5	5.00	0.50
9	9.00	1.00
91	9.00	1.00
911	9.00	1.00

Each grade except Grades 21L, 22L, 91 and 911 is available in two classes of tensile strength levels as defined in the Tensile Requirements tables, depending on heat treatment. In the annealed condition all grades are available only as Class 1. Grades 21L and 22L are available only as Class 1. Grade 91 and 911 are available only as Class 2.

The maximum thickness of plates is limited only by the capacity of the composition to meet the specified mechanical property requirements.

The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents. Therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with this specification.

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- [BS EN 1759-1:2004](#)

ASTM A387 / A387M - 03 is cited by BS EN 1759.1:2004 Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24.

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