

TAM International Incorporated

Carbon Steel Material for Non-Load Bearing or Non-Pressure Containing Components

ESMA-1002

Approval of Document ESMA-1002

Signature	 Luis Garcia – Sustaining Engineering Manager	<u>March 7, 2022</u> Date
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1 SCOPE

- 1.1. This document provides specifications for mild carbon steel material used for producing non-load bearing or non-pressure containing component parts in TAM products.

2. ACCEPTABLE MATERIALS / CHEMISTRY

- 2.1. Any carbon steels that fall within **0.12 – 0.35 %** carbon content are acceptable as long as the material meets all other requirements of this specification.

3 MECHANICAL PROPERTIES

- 3.1 Since the material defined by this specification is utilized exclusively in non-load bearing or non-pressure containing applications, the mechanical properties are not specified.


NOTE: No mechanical properties are required by this specification to be reported unless otherwise specified.

4 WELDABILITY

- 4.1 **Material weldability shall meet or exceed the requirements listed for ASTM 519, P1 materials as identified in ASME BPVC-IX.**

Ferrous and Nonferrous P-Numbers

Spec No.	Type/Grade	P-No.
A519	1018 CW	1
A519	1018 HR	1
A519	1020 CW	1
A519	1020 HR	1
A519	1022 CW	1
A519	1022 HR	1
A519	1025 CW	1
A519	1025 HR	1
A519	1026 CW	1
A519	1026 HR	1

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5 DIMENSIONAL TOLERANCES

5.1 Unless otherwise specified, dimensional tolerances shall comply with the following:

5.1.1 Plates shall comply with the dimensional requirements of ASTM A568.

5.1.2 Tubes shall comply with the dimensional requirements of ASTM A450.

5.1.3 Bars shall comply with the dimensional requirements of ASTM A29.

5.1.4 Shapes shall comply with the dimensional requirements of ASTM A6.

6 REPORTS

6.1 Material ordered to this specification shall be accompanied by a Material Test Report. Report shall contain the following minimum information which will be subject to inspection upon receipt:

6.1.1 Statement of material type/grade

6.1.2 Chemical analysis that shows the carbon content


6.1.3 Material Identification Number

7 MATERIAL ACCEPTANCE

7.1 All requirements of this specification are subject to verification at the discretion of TAM International.

7.2 TAM Engineering Manager or designee is ultimately responsible for accepting or rejecting material that does not conform to any portion of this specification.


7.3 Any material deviations must be submitted and approved on a Material Deviation Request (PF-09) before machining can begin.

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Rev	Date	Description	Prepared By:	Reviewed By / Approved By	Date
A	7/21/15	New Document	Mark Wyatt	M. Wyatt, G. Fletcher, T. Young	7/21/2015
B	01/21/2022	New document format. All changes marked in Red . (Sect. 2, Sect. 4, Sect. 7)	G. Fletcher	J. Dinkel, L. Garcia, T. Young, D. Gregory; / G. Fletcher	01/28/2022

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