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ASME/B31.1 Errata

Errata to ASME Standards provide corrections to incorrectly published items, or to correct typographical or grammatical errors. Such errata shall be used on the date posted.

Record#	Codes Affected	Subject	Posted Date
16-1699	B31.1	B31.1; Errata for B31.1-2016 Table A-5	12/08/16

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Table A-5 Cast Iron

(16)

Maximum Allowable Stress Values in Tension, ksi, for Metal Temperature, °F, Not Exceeding						
400	450	500	600	650	Class	Spec. No.
Gray Cast Iron						
2.0	...	...	...	...	20	A48
2.5	...	...	...	...	25	
3.0	...	...	...	...	30	
3.5	...	...	...	...	35	
4.0	...	...	...	...	40	
4.5	...	...	...	...	45	
5.0	...	...	...	...	50	
5.5	...	...	...	...	55	
6.0	...	...	...	...	60	
2.1	...	...	...	...	A	A126
3.1	...	...	...	...	B	
4.1	...	...	...	...	C	
2.0	2.0	...	...	...	20	A278
2.5	2.5	...	...	...	25	
3.0	3.0	...	...	...	30	
3.5	3.5	...	...	...	35	
4.0	4.0	...	...	...	40	
4.5	4.5	...	...	...	45	
5.0	5.0	...	...	...	50	
5.5	5.5	...	...	...	55	
6.0	6.0	...	...	...	60	
Ductile Cast Iron						
9.6	9.6	9.6	9.6 ∟ 9.0	8.5	60-40-18	A395
10.4	10.4	...	...	...	65-45-15	
9.6	9.6	9.6	9.0	8.5	60-42-10	A536
11.2	11.2	11.2	10.5	10.0	70-50-05	

NOTES:

- (1) THIS MATERIAL IS NOT ACCEPTABLE FOR BOILER EXTERNAL PIPING — SEE FIG. 100.1.2(A.1), FIG. 100.1.2(A.2), FIG. 100.1.2(B.1), FIG. 100.1.2(B.2), AND FIG. 100.1.2(B.3).
- (2) Material quality factors are not applicable to these materials.
- (3) For saturated steam at 250 psi (406°F), the stress values given at 400°F may be used.
- (4) For limitations on the use of this material, see para. 124.4.
- (5) This material shall not be used where the design pressure exceeds 250 psig [1 725 kPa (gage)] or where the design temperature exceeds 450°F (230°C).
- (6) This material shall not be used for boiler external piping where the design pressure exceeds 350 psig [2 415 kPa (gage)] or where the design temperature exceeds 450°F (230°C).
- (7) Piping components conforming to either ASME B16.1 or ASME B16.4 may be used for boiler external piping, subject to all the requirements of the particular standard.
- (8) For limitations on the use of this material, see para. 124.6.