Inquiry: Under what conditions may alloy SUS 430J1LTB meeting the material requirements of JIS G 3463:2006 be used in the construction of heating boilers per Part HF?

Reply: It is the opinion of the Committee that alloy SUS 430J1LTB meeting the material requirements of JIS G 3463:2006 may be used in the construction of heating boilers per Part HF, provided the following requirements are met:

(a) The allowable stress values for tubes in accordance with alloy SUS 430J1LTB shall be as listed in Tables 1 and 1M.

(b) The minimum specified tensile strength shall be 56.5 ksi (390 MPa).

(c) The minimum specified yield strength shall be 29.5 ksi (205 MPa).

(d) For the purpose of welding and brazing procedure and performance qualifications, this material shall be considered P-No. 7, Group No. 2 for welding and P-No. 102 or AWS B2.2/B2.2M, BM 150 for brazing.

(e) For external pressure, Figure CS-2 of Section II, Part D shall be used.

(f) The maximum design temperature shall be 500°F (260°C).

(g) The water temperature shall not exceed 250°F (125°C).

(h) The maximum allowable working pressure shall not exceed 30 psi (205 kPa).

(i) All other requirements of Section IV shall be met.

(j) This Case number shall be shown on the Manufacturer’s Data Report.

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1 See Section II, Part A, Nonmandatory Appendix A in order to obtain an English copy of the specification.