

**ASTM A688M-88a/ASME SA688 WELDED AUSTENITIC STAINLESS STEEL FEEDWATER HEATER TUBE<sup>1</sup>**

This standard is issued under the fixed designation A 688/A 688M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (2) indicates an editorial change since the last revision or reapproval.

**1.Scope**

1.1 this specification<sup>2</sup> covers welded austenitic stainless steel feedwater heater tubes including those bent, if specified, into the form of U-tubes for application in tubular feedwater heaters.

1.2 The tubing sizes covered shall be 5/8 to 1 in. [15.9 to 25.4 mm] inclusive outside diameter, and average or minimum wall thickness of 0.028 in. [0.7 mm] and heavier.

1.3 the values stated in inch-pound units are to be regarded as the standard.

**JIS Number and Corresponding Foreign Standards**

| JIS                |        |      | ASTM               |        |      | BS                 |            |      | DIN                |           |      | NF                 |                 |      | ISO                |       |      | Index<br>Number |
|--------------------|--------|------|--------------------|--------|------|--------------------|------------|------|--------------------|-----------|------|--------------------|-----------------|------|--------------------|-------|------|-----------------|
| Standard<br>Number | Grade  | Type | Standard<br>Number | Grade  | Type | Standard<br>Number | Grade      | Type | Standard<br>Number | Grade     | Type | Standard<br>Number | Grade           | Type | Standard<br>Number | Grade | Type |                 |
| G3463              |        |      | A213               | TP304  | SUS  | 3605               | 304s18     | SUS  | 2462               | X5CrNi189 | SUS  | A49-230            | TUZ6CN<br>18.09 | SUS  | 2604/2             | TS48  | SUS  | C012            |
|                    | SUS    |      | A249               | TP304  | SUS  | "                  | 304S25     | SUS  | 2463               | X5CrNi189 | SUS  |                    |                 |      |                    |       |      |                 |
|                    | 304TB  | SUS  | A269               | TP304  | SUS  | 3606               | LWHT304S22 | SUS  |                    |           |      |                    |                 |      |                    |       |      |                 |
|                    |        |      | A623               | TP304  | SUS  | 3606               | LWCF304S22 | SUS  |                    |           |      |                    |                 |      |                    |       |      |                 |
|                    |        |      | A688               | TP304  | SUS  | "                  | LWBC304S25 | SUS  |                    |           |      |                    |                 |      |                    |       |      |                 |
|                    | SUS    |      | A213               | TP304H | SUS  | 3059               | CFS304S59  | SUS  |                    |           |      |                    |                 |      | 2604/2             | TS48  | SUS  |                 |
|                    | 304HTB | SUS  | A249               | TP304H | SUS  | 3606               | 304S59     | SUS  |                    |           |      |                    |                 |      |                    |       |      |                 |
|                    | SUS    |      | A213               | TP304L | SUS  | 3605               | 304S14     | SUS  | 2462               | X2CrNi189 | SUS  | A49-207            | TSZ2CN<br>18.10 | SUS  | 2604/2             | TS46  | SUS  |                 |
|                    | 304LTB | SUS  | A249               | TP304L | SUS  | "                  | 304S22     | SUS  | 2463               | X2CrNi189 | SUS  | "                  | TSZ2CN<br>18.10 | SUS  |                    |       |      |                 |
|                    |        |      | A269               | TP304L | SUS  | 3606               | LWHT304S22 | SUS  |                    |           |      | A49-230            | TSZ2CN<br>18.10 | SUS  |                    |       |      |                 |

[illegible]



[illegible]

[illegible]