ASME SA213M SA213 T9 Seamless Alloy Steel Tubes

ASME SA213M / SA213 T9 is the standard applicable to Seamless Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes.

ASME SA213M / SA213 tubes shall be made by the seamless process and shall be either hot-finished or cold finished as specified.

ASME SA213M / SA213 covers several grades of minimum- wall-thickness, seamless, alloy-steel, boiler and superheater tubes.

Click to visit our website for details of ASTM A192 ASME SA192 Seamless Boiler Tubes.

ASME SA213M / SA213 tubing sizes and thicknesses usually furnished to this specification are 1/8 in. (3.2 mm) in inside diameter to 5 in. (127 mm) in outside diameter and 0.015 to 0.500 in. (0.4 to 12.7 mm), inclusive, in minimum wall thickness or, if specified in the order, average wall thickness. Tubing having other diameters may be furnished, provided such tubes comply with all other requirements of this specification.
Standard: ASME SA213M / SA213


Size: 3.2 to 127 mm.

Wall Thickness: 0.4 to 12.7 mm

Shape: Round

Length: Single random length/ Double random length or as customer's actual request

Grade: T9

Referenced Documents:

ASTM A 1016/A 1016M Specification for General Requirements for Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes

Chemical Composition:

<table>
<thead>
<tr>
<th>Chemical Components (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>T9</td>
</tr>
</tbody>
</table>

Heat Treatment Requirements:

<table>
<thead>
<tr>
<th>Grade</th>
<th>UNS Number</th>
<th>Heat Treat Type</th>
<th>Austenitizing / Solutioning Temperature, min or range °F (°C)</th>
<th>Subcritical Annealing or Tempering Temperature, Min or range °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T9</td>
<td>K50400</td>
<td>full or isothermal anneal normalize and temper</td>
<td>...</td>
<td>1250 (675)</td>
</tr>
</tbody>
</table>
Tensile Requirements and Hardness:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mechanical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tensile Strength (Mpa)</td>
</tr>
<tr>
<td>T9</td>
<td>≥415</td>
</tr>
</tbody>
</table>

- **Flattening Test** - One flattening test shall be made on specimens from each end of one finished tube, not the one used for the flaring test, from each lot.
- **Flaring Test** - One flaring test shall be made on specimens from each end of one finished tube, not the one used for the flattening test, from each lot.
- **Hydrostatic or Nondestructive Electric Test** - Each tube shall be subjected to the nondestructive electric test or the hydrostatic test. The type of test to be used shall be at the option of the manufacturer, unless otherwise specified in the purchase order.

Materials and Manufacture:

- The Steel shall be killed.
- The Tubes shall be made by the seamless process and shall be either hot-finished or cold finished, as specified.
- **Heat Treatment** - Ferritic Alloy and Ferritic Stainless Steels - The ferritic alloy and ferritic stainless steels shall be reheated for heat treatment in accordance with the requirements of Standard. Heat treatment shall be carried out separately and in addition to heating for hot forming.

Note:

- Mill test certificates will be issued according to EN10204.3
- All tubes shall be supplied as per applicable ASME SA213M / SA213 Specification.
ASME SA213M / SA213 PHOTOS:

Packing and Marking:

- Packed in bundles or ply wooden box wrapped in plastic, and suitably protected for sea-worthy delivery or as requested.
- Marking prescribed in Specification A1016 / A1016M, the marking shall include whether the tube is hot-finished or cold-finished and including not limited: Standard, graded, size, heat no. lot no.

Packing photos:
Wooden box package

Package in bundles

Read more information of this products:

- **ASME SA213M / SA213 T9 Seamless Alloy Steel tubes**

Related products:
Carbon steel:

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Professional Pipeline Supplier

- ASTM A519 ASME SA519 SAE1010 Seamless tubes and pipes
- ASTM A519 ASME SA519 SAE1020 seamless tubes and pipes
- ASTM A519 ASME SA519 SAE1026 seamless tubes and pipes
- ASTM A519 ASME SA519 SAE1035 seamless tubes and pipes
- ASTM A519 ASME SA519 SAE1045 seamless tubes and pipes
- ASTM A519 ASME SA519 SAE4130 seamless tubes and pipes
- ASTM A179 / ASME SA179 Seamless tubes
- ASTM A192 / ASME SA192 Seamless boiler tubes
- ASTM A210 / ASME SA210 GRADE A1 Seamless tubes
- ASTM A210 / ASME SA210 GRADE C Seamless tubes

**Alloy steel:**

- ASME SA213M / SA213 T9 Seamless Alloy Steel tubes
- ASTM A213 T11 T12 T22 Seamless alloy tubes
- ASTM A213/A 213M T2, T5, T5b, T9, T91 Seamless Alloy Steel tubes
- ASTM A335 P1, P2, P5, P9 Seamless alloy pipes
- ASTM A335 P11, P12, P22, P91 seamless alloy pipes
- ASTM A209 ASME SA209 T1 tubes

**Stainless steel and Duplex:**

- ASTM A269 Stainless Steel Tubes
- ASTM A213 Stainless Steel Tubes
- ASTM A249 Stainless Steel Tubes
- ASTM A270 Sanitary Stainless Tubing
- ASTM A312 Stainless Steel Pipes
- ASTM A789 Duplex Stainless Tubing

**Copper and Brass:**

- ASTM B111 Copper and Brass Tubes

**Titanium Alloy Tubes:**

- ASTM B338 GR.1 GR.2 GR.3 Titanium Alloy Tubes

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