ASME SA 213/213M TP347H
TP347 Seamless Stainless Pipes

ASME SA213 /213M, ASTM A213 TP347H Seamless stainless pipe is for Boilers,

**Standard:**

ASTM A213/A213M, ASME SA213.

**Description Name:**


**Outside Diameter:**

1/8" to 24" (10.3mm to 610mm).

**Wall Thickness:**

1mm to 80mm.

**Length:**

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

Max length 25000mm.

**Shape:**

Round.

**Referenced Documents:**

ASME SA213/213M (Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, And Heat Exchanger tubes), Grade include as follows:

https://www.ctstubes.com/  E-mail: cts@ctstubes.com
ASTM Referenced Standards.


A 941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys.


E 112 Test Methods for Determining Average Grain Size.

**Chemical Composition:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>UNS</th>
<th>Composition, %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Design</td>
<td>C</td>
</tr>
<tr>
<td>TP347</td>
<td>S34700</td>
<td>0.08</td>
</tr>
<tr>
<td>TP347H</td>
<td>S34709</td>
<td>0.04</td>
</tr>
</tbody>
</table>

SA213 TP347H Chemical Composition Test
### Heat Treatment Requirements

<table>
<thead>
<tr>
<th>Grade</th>
<th>UNS Designation</th>
<th>Heat Treat Type</th>
<th>Austenitizing/ Solutioning Temperature, min or range ºF [ºC]</th>
<th>Cooling Media</th>
<th>ASTM Grain Size No. B</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP347</td>
<td>S34700</td>
<td>Solution treatment</td>
<td>1900 ºF [1040 ºC]</td>
<td>water or another rapid cool</td>
<td>...</td>
</tr>
<tr>
<td>TP347H</td>
<td>S34709</td>
<td>Solution treatment</td>
<td>cold worked:2000 [1100] hot rolled: 1925 [1050]H</td>
<td>water or another rapid cool</td>
<td>7</td>
</tr>
</tbody>
</table>

### Tensile Requirements

<table>
<thead>
<tr>
<th>Grade</th>
<th>UNS Designation</th>
<th>Tensile Strength, Min ksi [MPa]</th>
<th>Yield strength, min ksi [MPa]</th>
<th>Elongation in 2 in. or 50 mm, min, %A, B</th>
<th>Hardness, Max</th>
<th>Brinell/Vickers</th>
<th>Rockwell</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP347</td>
<td>S34700</td>
<td>75 [515]</td>
<td>30 [205]</td>
<td>35</td>
<td>192HBW/200Hv</td>
<td>90HB</td>
<td></td>
</tr>
<tr>
<td>TP347H</td>
<td>S34709</td>
<td>75 [515]</td>
<td>30 [205]</td>
<td>35</td>
<td>192HBW/200Hv</td>
<td>90HB</td>
<td></td>
</tr>
</tbody>
</table>

### Flattening Test

Flattening tests shall be made on specimens from each end of one finished tube, not the one used for the flaring test, from each lot.

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Flaring tests shall be made on specimens from each end of one finished tube, not the one used for the flattening test, from each lot.
Hydrostatic and Nondestructive Testing

Each TP347H Stainless Steel Seamless pipe shall be subjected to the nondestructive electric test or the hydrostatic test. The type of test to be used shall be at the manufacturer's option unless otherwise specified in the purchase order.

- 100% Ultrasonic Testing
- 100% Eddy Current Testing
- 100% Hydrostatic Testing

Markings

Markings will adhere to prescribed specifications in A999/A999M. They shall include the NPS or OD and schedule number or average wall thickness, heat number, and NH (when hydro testing is not performed) and ET (when eddy-current testing is performed) or UT (when ultrasonic testing is performed). The marking shall also include the manufacturer's private identifying mark, the marking requirement of section 12.3 on Hydrostatic or Nondestructive Electric Test, if applicable, and whether seamless (SML), welded (WLD), or heavily cold-worked (HCW). For Grades TP347 and TP347H Stainless Tubes, the marking shall also include the heat number and heat-treatment lot identification.

Note:

- Mill test certificates will be issued according to EN10204-3.1 or 3.2
- All tubes shall be supplied as per applicable ASME SA213/213M Specification.
SA213 TP347 TP347H Stainless tubes Applications

Industry

- Pharmaceutical Equipment
- Chemical Equipment
- Sea Water Equipment
- Heat Exchangers
- Condensers
- Pulp and Paper Industry
- Off-Shore Oil Drilling Companies
- Power Generation
- Petrochemicals
- Gas Processing
- Specialty Chemicals
- Pharmaceuticals

ASTM A213 TP347H Stainless Tubes Photos

TP347H Stainless tube applications industry

TP347 Stainless Tube Size Inspection
**Packing and Marking**

- Packed in bundles or ply wooden box wrapped in plastic, and suitably protected for seaworthily delivery or as requested.

**Packing photos:**

CTS TUBES Can supply not only ASME SA213 TP347, TP347H Stainless Steel Tubes but also Supply TP304/TP304L, TP340H, TP316/TP316L, TP310S, TP321, S31803, S32750, S32254, etc.

Contact us for a free quotation now.
Read more information about this product

- **ASME SA213 TP347H Stainless Steel Pipes**

Related products

**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**

**Cold Drawn precision tubes**

- **JIS G3445 STKM11A, STKM12C, STKM12A Steel Tubes**
- **EN10305-1 Seamless Cold Drawn Tubes**
- **DIN2391 Seamless Precision Steel tubes**

**Carbon steel**

- **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**

- **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**

https://www.ctstubes.com/ E-mail: cts@ctstubes.com  Page 8 of TP347H ASME SA213 Stainless Steel Pipes.docx
CTS TUBES
Professional Tube & Pipe Supplier

- ASTM A335 P11, P12, P22, P91 seamless alloy pipes
- ASTM A209 ASME SA209 T1 tubes

Copper and Brass

- ASTM B111 Copper and Brass Tubes

Titanium Alloy Tubes

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

Read more information on CTS TUBES main products

- Seamless carbon steel tubes
- Cold drawn precision steel tubes
- Seamless alloy steel tubes
- Copper alloy seamless tubes
- Titanium and titanium alloy tubes
- Stainless steel tubes
- U bent heat exchanger tubes
- Fin tubes
- Bearing steel tubes

About CTS TUBES

CTS TUBES provide a wide range of steel products as Steel pipes, Seamless tube, seamless pipes, Alloy pipes, Pipe fittings, Stainless steel pipe, Copper tube and Titanium alloy tube used in the industry, construction, etc. We are looking forward to getting in contact by phone or email, and we hope you enjoy our website. More than ten years of profound knowledge turn CTS TUBES
into your competent partner as a trading house for tubes, fittings, and stainless steel. CTS TUBES stands for certified quality; because of this, all products of our wide range consist of demanding norms and the highest standards. CTS TUBES also stands for know-how and effective service.

Best solutions for your profit Our qualified team in our export department in China is always at your disposal and will help you. Profit by the knowledge of CTS TUBES, which disposes to an intern database.

Get in Touch If you are interested in our products or cooperating

Keep in Touch

If you are interested in our products or cooperation with us, even having a comment or a suggestion, please contact us now for more detailed information.

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