UNS S31254 /254SMO/F44/1.4547

254SMO is a super Austenitic Stainless Steel. It is designed with a combination of impact toughness resistance to chloride stress corrosion cracking, and pitting and crevice corrosion with strength that is twice that of the stainless steel 300 series. The following sections will discuss in detail about Stainless Steel Grade 254SMO.

**Chemical Composition, %**

<table>
<thead>
<tr>
<th>Element</th>
<th>Ni</th>
<th>Fe</th>
<th>Cr</th>
<th>Cu</th>
<th>Mo</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.5~18.5</td>
<td>Balance</td>
<td>19.5~20.5</td>
<td>0.5~1.0</td>
<td>6.0~6.5</td>
<td>0.18~0.22</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>0.002max</td>
<td>1.0max</td>
<td>0.030max</td>
<td>0.010max</td>
<td>0.80max</td>
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</tbody>
</table>

**Mechanical Properties**

<table>
<thead>
<tr>
<th>Material Grade</th>
<th>Yield Strength, Min(Mpa)</th>
<th>Tensile Strength, Min(Mpa)</th>
<th>Strength, Min (%)</th>
<th>Elongation, Min (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>254SMO</td>
<td>300</td>
<td>650~820</td>
<td>28</td>
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</tbody>
</table>

**ASTM SPECIFICATION**

<table>
<thead>
<tr>
<th>Pipe, SMLS&amp;Welded</th>
<th>Tube, SMLS&amp;Welded</th>
<th>Sheet/Plate</th>
<th>Bar/Rod</th>
<th>Forging/Flange</th>
<th>BW Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A312</td>
<td>ASTM A269</td>
<td>ASTM A240</td>
<td>ASTM A276/A479</td>
<td>ASTM A182</td>
<td>ASTM A403</td>
</tr>
</tbody>
</table>
Product: BW Fittings (Elbow, Reducer, Cap, Tee, Stub Ends)
Standard: ASTM A403

45deg Elbow

90deg Elbow
Zhengzhou Huitong Pipeline Equipment Co., Ltd
郑州市汇通管道设备有限公司
Room 2004, Expo Center, Jinsui District, Zhengzhou City, Henan Province, China, 450000
Tel: 86-371-60953359  Fax: 86-371-60953359

Stub Ends

HT 3” SCH 10
254MO B16.9
Heat No. 17A683
Product: Forgings / Flanges
Standard: ASTM A182
Product: Seamless & Welded Pipes / Tubes
Standard: ASTM A312, ASTM A269
Bolts and Nuts
Product: Plate, Sheet
Standard: ASTM A240
Product: Bar/ Rod
Standard: ASTM A276/A479