Super Duplex S32760 / A182 F55 /1.4501

S32760 is a super duplex stainless steel with a 50:50 austenite, ferrite microstructure. The material combines high mechanical strength and good ductility with excellent corrosion resistance in a variety of environments. This material is generally supplied in the annealed condition giving yield strength in excess of 550Mpa, this material cannot be hardened by heat treatment but stronger surface strength can be achieved by cold working. Typical applications include many components for the chemical processing, marine, oil and gas, pollution control and food industries amongst others.

Chemical Composition, %

<table>
<thead>
<tr>
<th></th>
<th>Ni</th>
<th>W</th>
<th>Cr</th>
<th>Cu</th>
<th>Mo</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.0–8.0</td>
<td>0.5–1.0</td>
<td>24.0–26.0</td>
<td>0.5–1.0</td>
<td>3.0–4.0</td>
<td>0.2–0.3</td>
</tr>
<tr>
<td>C</td>
<td>MN</td>
<td>P</td>
<td>S</td>
<td>Si</td>
<td>Fe</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.03max</td>
<td>1.0max</td>
<td>0.03max</td>
<td>0.01max</td>
<td>1.0max</td>
<td>Balance</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>Elongation, Min(%)</th>
<th>Hardness</th>
</tr>
</thead>
<tbody>
<tr>
<td>S32760</td>
<td>&gt; 550</td>
<td>730–930</td>
<td>25</td>
<td>290HB Max</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>Pipe, Welded</th>
<th>Sheet/Plate</th>
<th>Bar/Rod</th>
<th>Forging/Flange</th>
<th>BW Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A790</td>
<td>ASTM A789</td>
<td>ASTM A928</td>
<td>ASTM A240</td>
<td>ASTM A276/A479</td>
<td>ASTM A182</td>
<td>ASTM A815</td>
</tr>
</tbody>
</table>
Product: BW Fittings (Elbow, Reducer, Cap, Tee, Stub Ends)
Standard: ASTM A815

Reducing Tee
HT
ASTM A815 S32760
12"*6"SCH10SxSCH10S
Heat No. 290541
Equal Tee
Elbows
Concentric & Eccentric Reducer
Product: Forgings / Flanges
Standard: ASTM A182
SW Elbow

Swage Nipple
SW Coupling

Threadolet
Product: Seamless & Welded Pipes / Tubes
Standard: ASTM A312, ASTM A269
S32760 Hex Bolts & Nuts
ZHENGZHOU HUITONG PIPELINE EQUIPMENT CO., LTD
郑州市汇通管道设备有限公司
ROOM2004, EXPO CENTER, JINSHUI DISTRICT, ZHENGZHOU CITY,
HENAN PROVINCE, CHINA, 450000
TEL: 86-371-60953359  FAX: 86-371-60953359
Product: Plate, Sheet
Standard: ASTM A240
Product: Bar/ Rod
Standard: ASTM A276/A479