Manufactory profile

My company has smelting, forging, heat treatment, machining etc workshop. Heat treatment equipment, heat treatment capacity of 20000 tons, 15 meters long, 4 m diameter workpiece; Special steel smelting with ED + LF + VD and electricity remelting of melting slag ability.

The main production of special steel categories include: Stainless Steel, Tool steel, Carbon steel, Alloy steel, Mould steel, Ti Alloy, High alloy, the whole steel, high temperature alloy, nickel-based alloy, cobalt-based alloy, Hastelloy alloy etc. Production specifications including: Round bar, Tube/Pipe, Steel plate, Sheet, Coil, Flat bar, Cold rolling, Steel wire, Steel strip etc.

Characteristics for grade STS430J1L

<table>
<thead>
<tr>
<th>Grade:</th>
<th>STS430J1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>title:</td>
<td>STS430J1L STS430J1L</td>
</tr>
<tr>
<td>Classification:</td>
<td>STS430J1L</td>
</tr>
</tbody>
</table>

Chemical composition % of the ladle analysis of grade STS430J1L

<table>
<thead>
<tr>
<th>Element</th>
<th>C</th>
<th>Si</th>
<th>Mn</th>
<th>P</th>
<th>S</th>
<th>Cr</th>
<th>Ni</th>
<th>Mo</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max</td>
<td>0.025</td>
<td>Max 1.0</td>
<td>Max 1.0</td>
<td>Max 0.04</td>
<td>Max 0.030</td>
<td>16.0-20.0</td>
<td>Max 0.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>N</td>
<td>Cu</td>
<td>Co</td>
<td>Pb</td>
<td>B</td>
<td>Nb</td>
<td>Al</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>0.30-0.80</td>
<td></td>
<td>Ti, Nb, Zr: 8C ≤ N ≤ 0.80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mechanical properties of grade STS430J1L

<table>
<thead>
<tr>
<th>Annealing hardness HBS</th>
<th>Cold pull hardness HBS</th>
<th>Preheating temperature °C</th>
<th>Quenching temperature °C</th>
<th>Holding time min</th>
<th>Hardening medium</th>
<th>Tempering temperature °C</th>
<th>After tempering hardness &gt;= HRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>235</td>
<td>262</td>
<td>788</td>
<td>1191</td>
<td>1204</td>
<td>5-15</td>
<td>air cooling</td>
<td>522</td>
</tr>
</tbody>
</table>

Technological properties of grade STS430J1L

| Melting temperature: | 327.3 °C |
We can produce STS430J1L, the specifications follows:

Note:
(1) listed in the table apex diameter (d), to steel thickness (a) multiples said.
(2) in the ASTM A6 standard specified scope can meet any additional conditions.
(3) from the standard for 50 mm (2 in).

Mechanical properties
Mechanische Eigenschaften
Caractéristiques mécaniques

ReH Minimum yield strength / Mindestwert der oberen Streckgrenze / Limite d’elasticite minimale
Rm Tensile strength / Zugfestigkeit / Resistance a la traction
A Minimum elongation / Mindestwert der Bruchdehnung / Allongement minimal
J Notch impact test / Kerbschlagbiegeversuch / Essai de flexion par choc

Round bar:
Diameter : 1mm-2000mm
Square bar:
Size: 50mm * 50mm-600mm *600mm
Plate steel/flat bar:
Size: Thickness: 0.1mm-800mm Width: 10mm to 1500mm
Tube/pipe:
Size: OD: 6-219mm WT: 1-35 mm.
Cold-rolled sheet: Thickness: 2-5mm Width:1000mm Length: 2000mm
Hot-rolled sheet: Thickness:6-80mm Width: 210-610mm
Length: We can supply any length based on the customer's requirement.
Forging/hot rolling/ extrusion of steel.
Forging: Shafts with flanks/pipes/tubes/slugs/donuts/cubes/other shapes
Finished goods condition: hot forging/hot rolling + annealing/normalizing + tempering/quenching + tempering/any conditions based on the customer's requirement
Surface conditions: scaled (hot working finish)/ground/rough machining/fine machining/based on the customer's requirement
Furnaces for metallurgical processing: electrode arc + LF/VD/VOD/ESR/Vacuum consumable electrode.
Ultrasonic inspection: 100% ultrasonic inspection for any imperfections or based on the customer's requirement.
UTS according to SEP 1921 C/c,D/d,E/e:A388 or GB/T 6402
Excellent service for all kinds of industries, with advantages of technologies, equipment and price.
We serve you with our honesty, integrity, and professionalism.

Product pictures

Web address: /Steel-Grades/Special-Steel/