Martensitic special steel PH13-8Mo steel chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and microstructure. We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of PH13-8Mo, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Materials Special Steel Martensitic special steel PH13-8Mo

<table>
<thead>
<tr>
<th>PH13-8Mo Standard Number</th>
<th>PH13-8Mo Chemical composition(mass fraction)(wt.%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEM</td>
<td>Standard Number</td>
</tr>
<tr>
<td>PH13-8Mo Chemical composition(mass fraction)(wt.%)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemical</td>
</tr>
<tr>
<td></td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td>W</td>
</tr>
<tr>
<td></td>
<td>0.01</td>
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</table>

<table>
<thead>
<tr>
<th>PH13-8Mo Physical Properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>115-234</td>
</tr>
<tr>
<td>Yield Strength</td>
<td>23</td>
</tr>
<tr>
<td>Elongation</td>
<td>65</td>
</tr>
<tr>
<td>ψ</td>
<td>-</td>
</tr>
<tr>
<td>Akv</td>
<td>-</td>
</tr>
</tbody>
</table>
**PH13-8Mo Mechanical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>231-231</td>
<td>MPa</td>
</tr>
<tr>
<td>Yield Strength</td>
<td>154</td>
<td>MPa</td>
</tr>
<tr>
<td>Elongation</td>
<td>56</td>
<td>(%)</td>
</tr>
<tr>
<td>$\psi$</td>
<td>-</td>
<td>(%)</td>
</tr>
<tr>
<td>$A_{Kv}$</td>
<td>-</td>
<td>J</td>
</tr>
<tr>
<td>HBS</td>
<td>235-268</td>
<td></td>
</tr>
<tr>
<td>HRC</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**PH13-8Mo Heat Treatment Regime**

<table>
<thead>
<tr>
<th>Heat Treatment</th>
<th>Annealing</th>
<th>Quenching</th>
<th>Tempering</th>
<th>Normalizing</th>
<th>Q &amp; T</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>?</td>
<td>?</td>
<td>?</td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>

**PH13-8Mo Range of products**

<table>
<thead>
<tr>
<th>Product type</th>
<th>Products</th>
<th>Dimension</th>
<th>Processes</th>
<th>Deliver Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plates/ Sheets</td>
<td>Plates/ Sheets</td>
<td>0.08-200mm(T)<em>W</em>L</td>
<td>Forging, hot rolling and cold rolling</td>
<td>Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting</td>
</tr>
<tr>
<td>Steel Bar</td>
<td>Round Bar, Flat Bar, Square Bar</td>
<td>Φ 8-1200mm*L</td>
<td>Forging, hot rolling and cold rolling, Cast</td>
<td>Black, Rough Turning, Shot Blasting</td>
</tr>
<tr>
<td>Coil / Strip</td>
<td>Steel Coil /Steel Strip</td>
<td>0.03-16.0x1200mm</td>
<td>Cold-Rolled &amp; Hot-Rolled</td>
<td>Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting</td>
</tr>
<tr>
<td>Pipes / Tubes</td>
<td>Seamless Pipes/Tubes, Welded Pipes/Tubes</td>
<td>OD:6.6-219mm x WT:0.5-20.0mm</td>
<td>Hot extrusion, Cold Drawn, Welded</td>
<td>Annealed, Solution and Aging, Q+T, ACID-WASHED</td>
</tr>
</tbody>
</table>

We can produce Special Steel the specifications follows:
PH13-8Mo
https://www.steelss.com
High Quality Special Steel Supplier
+86-13880247006 E-mail:sales@steelss.com

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’élasticite 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/pipes:
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 professionality.