



## Astrup MDS Alloy 718 Rev 2

### Alloy 718 Rev 2

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Material Description	Quality
Hotrolled, Solution annealed Aged hardened, machined	UNS NO7718
<b>Technical requirements</b>	
<ul style="list-style-type: none"> <li>• API 6A 718, NACE MR 0175 / ISO 15156-3:2009</li> <li>• Ultrasonic test ASTM A388 acc to API 6A para 7.4.2.4.11 PSL &gt;Ø3,625" dia</li> <li>• Macrostructure acc to ASTM A604, Grain size acc to ASTM E 112-10</li> <li>• Tensile ASTM 370-12 Yield 120-145 KSI, Tensile &gt;=150 KSI</li> <li>• Hardness max 40HRC acc to NACE MR0175, ASTM E18-11 surface / ½ radius</li> <li>• Charpy V -40 C° min 40 Joule</li> <li>• Heat Treatment API 6A 7.4.1.4.2</li> <li>• Heat Treatment report, Ultrasonic report, Microstructure report 100x and 500x</li> </ul>	
<b>Certificate</b>	
Acc. to EN 10204/3.1	
<b>Forms of supply</b>	
Lengths from 3-4 meter	
<b>Marking</b>	
Astrup purchase number, each bar to be marked or hard stamped with charge number.	
<b>API 6A 7.4.1.4.2 Solution Annealing and Age Hardening</b>	
<p>The production material and QTC(s) shall be solution annealed and age hardened in accordance with the following procedure:</p> <ul style="list-style-type: none"> <li>• <b>Step 1</b> - Solution anneal at a material temperature of 1870°F - 1925°F (1021°C - 1052°C) for one hour minimum to two and a half hours maximum.</li> <li>• <b>Step 2</b> - Cool in air, water, polymer or oil to ambient temperature.</li> <li>• <b>Step 3</b> - Age harden at a material temperature of 1425°F - 1475°F (774°C - 802°C) for six to eight hours.</li> <li>• <b>Step 4</b> - Air cool of faster to ambient temperature.</li> </ul>	