Material properties

Material **410 (USA / AISI)**

Group Stainless and heat resisting steels

Subgroup SAE AMS-QQ-S-763

Comment Martensitic Stainless Steel

Application Corrosion-resistant steel bars, wire, shapes (sections), and forgings. The material may be made by one or more of the following processes: electric furnace, electric induction, vacuum furnace or other suitable commercial processes.

Yield Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
> 12.5 mm, Bar - Intermediate temper	552	-	-
> 12.5 mm, Bar, Forging - Hard temper	621	-	-

Tensile Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
> 12.5 mm, Bar, Forging, Wire - Annealed	-	793	-
> 12.5 mm, Bar - Intermediate temper	689	-	-
< 12.5 mm, Bar - Intermediate temper	689	-	-
< 12.5 mm, Bar - Hard temper	827	1034	-
> 12.5 mm, Bar, Forging - Hard temper	827	-	-
< 12.5 mm, Bar, Forging, Wire - Annealed	-	792	-

Hardness	
Dimension	**Hardness**
> 12.5 mm, Bar, Forging, Wire - Annealed	< 241 HB

Chemical Composition [%]			
Criterion	**Min**	**Max**	**Approx**
C	-	0.1500	-
Si	-	0.5000	-
Mn	-	1.0000	-
P	-	0.0400	-
S	-	0.0300	-