

## Material properties

<b>Material</b>	<b>430 (USA / AISI)</b>
<b>Group</b>	Stainless and heat resisting steels
<b>Subgroup</b>	SAE AMS-QQ-S-763
<b>Comment</b>	Ferritic 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, Wire - Annealed (Cold)	241	-	-
> 12.5 mm, Bar, Wire - Annealed (Hot)	241	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
> 12.5 mm, Bar, Wire - Annealed (Cold)	448	-	-
< 12.5 mm, Bar, Wire - Annealed	-	758	-
> 12.5 mm, Bar, Wire - Annealed (Hot)	448	-	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
> 12.5 mm, Bar, Wire - Annealed (Cold)	15.0	-	-
> 12.5 mm, Bar, Wire - Annealed (Hot)	20.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.1200	-
Si	-	1.0000	-
Mn	-	1.0000	-
P	-	0.0400	-
S	-	0.3000	-
Cr	16.000	18.000	-