

Grade Specification and its Application

S.No.	Grade	Steel Type	Chemical properties and mechanical properties of raw material													Mechanical Properties Finish product in wire			B/Bar	Applications
			%C	%Mn	%Si	%P	%S	%Cr	%V	%Ni	%Mo	%Ti	%B	%Al	%Pb	UTS(N/mm2)	UTS(N/mm2)	Hardness		
1	SAE1006	General engg wire Low Carbon Steel wire	0.08max	0.50 max	0.35mx	0.04max	0.050max	-	-	-	-	-	-	-	0.020-0.040-	390max	450 Max	70 Max	-	Cable Armour Wire
2	SAE1008		0.10max	0.30- 0.60	0.35mx	0.04max	0.050max	-	-	-	-	-	-	-	0.020-0.040-	350-420	450 Max	70 Max	-	Steel decorative product, binding wires, nails, Ubolt, J Bolt, etc
3	SAE1010		0.08-0.13	0.30- 0.60	0.35mx	0.04max	0.050max	-	-	-	-	-	-	-	0.020-0.040-	350-450	450 Max	70 Max	-	Wire conductor in transport & telegraphy, Holding & binding wires
4	SAE1020		0.18-0.23	0.30- 0.60	0.35mx	0.04max	0.050max	-	-	-	-	-	-	-	0.020-0.040-	450-530	500 Max	75 Max	-	Fencing Wire, Binding wire, Net Nails, Small shaped product, wire net, screw, Rivets, Spokes, Mesh etc.