

# Carbon Steel

Property Class Designation	Nominal Size of Product	Material and Treatment	Mechanical Requirements						Property Class Ident. Marking
			Proof Load Stress, MPa	Tensile Yield Strength, MPa, Min.	Tensile Ultimate Strength, MPa, Min.	Prod. Hardness, Rockwell			
						Surface, Max.	Core Min.      Max.		
4.6	M5-M100	low or medium carbon steel	225	240	400	--	B67	B95	4.6
4.8	M1.6-M16	low or medium carbon steel, fully or partially annealed	310	340	420	--	B71	B95	4.8
5.8	M5-M24	low or medium carbon steel, cold worked	380	420	520	--	B82	B95	5.8
8.8	M16-M72	medium carbon steel, quenched and tempered	600	660	830	30N56	C23	C34	8.8
A325M Type 1	M16-M36								A325M 8S
8.8	M16-M36	low carbon boron steel, quenched and tempered	600	660	830	30N56	C23	C34	8.8
A325M Type 2									A325M 8S
A325M Type 3	M16-M36	atmospheric corrosion resistant steel, quenched and tempered	600	660	830	30N56	C23	C34	A325M 8S3
9.8	M1.6-M16	medium carbon steel, quenched and tempered	650	720	900	30N58	C27	C36	9.8
9.8	M1.6-M16	low carbon boron steel, quenched and tempered	650	720	900	30N58	C27	C36	9.8
10.9	M5-M20	medium carbon steel, quenched and tempered	830	940	1040	30N59	C33	C39	10.9
10.9	M5-M100	medium carbon alloy steel, quenched and tempered	830	940	1040	30N59	C33	C39	10.9
A490M Type 1	M12-M36								A490M 10S
10.9	M5-M36	low carbon boron steel, quenched and tempered	830	940	1040	30N59	C33	C39	10.9
A490M Type 2	M12-M36								A490M 10S
A490M Type 3	M12-M36	atmospheric corrosion resistant steel, quenched and tempered	830	940	1040	30N59	C33	C39	A490M 10S3
12.9	M1.6-M100	alloy steel, quenched and tempered	970	1100	1220	30N63	C38	C44	12.9