

Standard		Grade	Mechanical Properties							Chemical Composition based on cast analysis								
			Y.S(Mpa)		T.S(Mpa)		Y.S/T.S	Elongation%		Gauge length	C%	Si%	Mn %	P %	S %	N %	Cu %	C. E. %
			Min	MAX	Min	MAX	Min	A5	Agt		MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
Egyptian	Es 262:2015	B400B-R	400	-	-	-	1.08	14	5	5d	-	-	-	0.06	0.06	-	-	-
		B400C-R	400	-	-	-	1.15	14	7	5d	-	-	-	0.06	0.06	-	-	-
		B500B-R	400	-	-	-	1.08	14	5	5d	-	-	-	0.06	0.06	-	-	-
		B500C-R	400	-	-	-	1.15	14	7	5d	-	-	-	0.06	0.06	-	-	-
		B400BWR	400	-	-	-	1.08	14	5	5d	0.22	0.6	1.6	0.05	0.05	0.012	-	0.5
		B400CWR	400	-	-	-	1.15	14	7	5d	0.22	0.6	1.6	0.05	0.05	0.012	-	0.5
		B400DWR	400	520	-	-	1.25	17	8	5d	0.29	0.55	1.8	0.04	0.04	0.012	-	0.56
		B500DWR	500	650	-	-	1.25	13	8	5d	0.32	0.55	1.8	0.04	0.04	0.012	-	0.61
American	ASTM A615M-15	Gr60	420	-	620	-	-	9	-	200mm	-	-	-	0.06	-	-	-	-
		Gr75	520	-	690	-	-	7	-	200mm	-	-	-	0.06	-	-	-	-
British	BS449:2005	B500B-R	500	650	-	-	1.08	14	5	5d	0.24	-	-	0.055	0.055	0.014	0.85	0.52
ISO	6935:1991	RB500W	500	-	550	-	1.05	14	-	5d	0.24	0.65	1.5	0.055	0.055	0.013	-	0.52
DIN	488 BSt	500 S	500	650	550	-	1.08	10	8	10d	0.24	-	-	0.05	0.05	0.013	0.65	-
Canada	G30.18-M92	500W	500	625	625	-	-	12	-	200mm	0.33	0.55	1.65	0.042	0.052	0.013	-	0.55
JIS	G3117	SD50	490	628	618	-	-	12	-	10d	0.32	0.55	1.8	0.04	0.04	0.013	-	0.6
Lebanon	LRB500	A500 S	500	-	600	-	-	10	-	10d	0.25	-	-	0.055	0.055	0.013	-	0.52
Algeria	Algeria	RB500W	500	-	550	-	1.05	14	-	5d	0.24	0.65	1.7	0.055	0.055	0.013	-	0.5