	Specifications (Chemical)												Sp	ecification					
Material	C Mn		Si	Мо	Р	s	Nb	٧	Boron	Cr	CE	UTS	YS	% EI.	Hardness	Bend Test	Charpy Impact (Joules)	Reference	
BS En 10025 S275 Jo	0.18 max. 1.50 m	ах.			0.040 max.	0.040 max.						410-560 Mpa	275 Mpa (min.)	22			, ,		
IS1079 Gr. O	0.15 max. 0.60 m	ах.			0.055 max.	0.055 max.												Google	
IS1079 Gr. D	0.12 max. 0.50 m	ах.			0.040 max.	0.040 max.								28				Google	
IS1079 Gr. DD	0.10 max. 0.45 m	ax.			0.035 max.	0.035 max.						260-390 Mpa		32				Google	
IS1079 Gr. EDD	0.08 max. 0.40 m	ax.			0.030 max.	0.030 max.						260-380 Mpa		36				Google	
Sailma 300	0.25 max. 1.50 m	ах.			0.055 max.	0.055 max.						440-560 Mpa	300 Mpa (min.)	20		3Т	0°C to -20°C		
Sailma 300 HI	0.20 max. 1.50 m	ax.			0.04 max.	0.04 max.						440-560 Mpa	300 Mpa (min.)	21		3Т	40°C		
BS En 10025 S355	0.24 max. 1.60 m	ax. 0.	55 max.		0.05 max.	0.050 max.						490-640 Mpa	355 Mpa (min.)	20					
Sailma 350	0.25 max. 1.50 m	ax. 0.	.4 max.		0.050 max.	0.050 max.						490-610 Mpa	350 Mpa (min.)	20-21		3Т			
Sailma 350 HI	0.20 max. 1.50 m	ax. 0.	.4 max.		0.040 max.	0.040 max.						490-610 Mpa	350 Mpa (min.)	21		3Т		Google	
Essar (SRGES14 / SRGEV51)	0.24 max. 1.60 m	ax. 0.	55 max.		0.050 max.	0.050 max.						490-640 Mpa	355 Mpa (min.)	20 min.		3T	27 J min. at 0°C		
BS 970 070 M20 (MS.) (EN3A) (Bright Bar 6 <t<\13mm hrcd)<="" td=""><td>0.16-0.24 0.50-0</td><td>90 0.</td><td>.10-0.40</td><td>0.15 max.</td><td></td><td>0.05 max.</td><td></td><td></td><td></td><td></td><td></td><td>560 Mpa (min.)</td><td>440 Mpa (min.)</td><td>10</td><td></td><td></td><td></td><td></td><td></td></t<\13mm>	0.16-0.24 0.50-0	90 0.	.10-0.40	0.15 max.		0.05 max.						560 Mpa (min.)	440 Mpa (min.)	10					
BS 970 070 M20	0.16-0.24 0.50-0	90 0.	.10-0.40	0.15 max.		0.05 max.						400 Mpa (min.)	200 Mpa (min.)	21	126-250 HB				
(Bright Bar) BS 970 070 M20	0.15-0.25 0.40-0	90 0.	.35-0.50		0.06 max.	0.06 max.						436 Mpa (min.)		25					
220M07 eq. to En1A		_	.00 0.00		0.07 max.	0.20-0.30						ioo inpa (iiiiii)						Steel Hand Book	
En1A	0.07-0.15 0.80-1	+	10 max.		0.07 max.	0.20-0.30						430 Mpa (min.)		14	160 HB			(Pg. 6-4) Steel Hand Book	
En3A	0.15-0.25 0.40-0	_			0.06 max.	0.06 max.							274 Mpa (min.)	25	100112			(Pg. 6-2)	
En8A	0.33-0.38 0.50 m	-+			0.06 max.	0.06 max.							27 7 100 (111111)						
En9 (Eq. 070 M55)	0.50-0.60 0.50-0	_			0.06 max.	0.06 max.						850 Mpa (min.)	415 Mpa (min.)	14	201-255 HB			Google	
En43E (Eq. 080 A67)		_			0.06 max.	0.06 max.							440 Mpa (min.)	9	229-285			Google	
20Mn2	0.16-0.24 1.30-1				0.05 max.	0.05 max.							590 Mpa (min.)	10	220 200			. Coogio	
SAE 1018	0.15-0.20 0.60-0	_	. 10 0.00		0.04 max.	0.05 max.						roo mpa (mm)	ooo mpa (mmii)					Steel Hand Book	
	0.2 ~ 0.25 0.3 ~ (_			0.04 max.	0.05 max.						370 Mpa	210Mpa	25	111Hb			(Pg. 4-33) Steel Hand Book	
, ,	020 max. 1.50 m		5 max			0.050 max.	0 003-0 10	0 003-0 10				490-640 Mpa	 	18	111115			(Pg.)	
IS2062 Gr. A	0.23 max. 1.50 m	_	.o max.		0.05 max.	0.05 max.	0.000 0.10	0.000 0.10			0.42 max.	· ·	250 Mpa (min.)	23		3T			
IS2062 Gr. B	0.22 max. 1.50 m	_			0.045 max.								250 Mpa (min.)	23		2T / 3T	27 min.		
210M15 (Eq. En 32M)		_	10-0 40		0.05 max.	0.10-0.18					o. max.	430 Mpa (min.)	+ ' ' '	18		21,01	27 111111.	Google	
20MnCr5	0.17-0.22 1.1-1				0.035 max.					1.1-1.3			550 Mpa (min.)	10	240 BHN max.				
En19C (Rolled) Ø75mm		_		0.2-0.35	0.05 max.	0.05 max.				0.9-1.20		<u> </u>	525 Mpa (min.)	17	201-255 HB			Steel Hand Book	
42CrMoS4	0.38-0.45 0.70-0	+								0.90-1.20		-	750 Mpa (min.)	11	201 200 115			(Pg. 6-69) Google	
(Bar size Ø16-40mm) 42CrMoS4	0.38-0.45 0.70-0									0.90-1.20		· ·	650 Mpa (min.)	12				Google	
(Bar size Ø40-100mm) Boron Steel (Bucket Tooth_1C0050)	0.22-0.32 1.1-1			0.10 0.00	0.05 max.	0.05 max.			0.0005-0.003			450-680 Mpa	1	14-22	480-550 BHN (510-580 HV)		10 - 15 at (-) 20C	Coogic	
Carbon Steel	0.25 max. 1.00 m	ax.			0.04 max.	0.05 max.									56 HRC (min.)				
BS 3100 A4 Steel Casting	0.18-0.25 1.20-1	60 0.6	60 max.		0.05 max.	0.05 max.						540-690 Mpa	320 Mpa (min.)	16	152-207 HB		30 Joule at 20°C	BS 3100 : 1991	
IS513 'D'	0.12 max. 0.50 m	ах.										270-410 Mpa	280 Mpa (min.)	23					
450/12 (S.G. Iron IS 1865)	3.40-3.80 0.20-0	40 1.	.80-2.80		0.035 max.	0.03 max.						450 Mpa (min.)	310 Mpa (min.)	12	201 HB max.			IS 1865	Microsture Nodule - 85% min. Pearlite - 20% Ferrite - 80%
550/6 (S.G. Iron)												,	350 Mpa (min.)	6				Google	Microsture Nodule - 80% min. Pearlite - Ferrite -
BS6323 CFS GBK			35 max.		0.05 max.	0.05 max.						340 Mpa (min.)	170 Mpa (min.)	26	ļ			BS6323 Part 4	
25C8 (IS:1875)	0.20-0.30		.15-0.35 (±0.04)		0.04 max. (+0.005)	0.04 max. (+0.005)						460 Mpa (min.)	250 Mpa (min.)	22	180 HB min.			IS:1875	

				Spec	ifications (C									
Material	Cu	Sn	Pb	Zn	Р	Ni	Mn	S	Impurities	UTS	YS	% El.	Hardness	Reference
Gun Metal	85%	5%	5%	5%										
G3TF BS1400	Remainder	6.5-7.5	0.10-0.50	1.5-3.0	0.02 max.	5.25-5.75	0.2 max.		0.5 max.	430-480 Mpa	280-310 Mpa	3 to 5	160-180 BHN	BS 1400 : 1985
LPB1	Remainder	6.5-8.5	2.0-5.0	2.0 max.	0.3 min.	1.0 max.		0.1 max.	0.5 max.	190-250 Mpa	80-130 Mpa	3 to 12	60-90 BHN	BS 1400 : 1985