

Comparison of steel grades

	JUS	-
	DIN	-
18CrMoS4 EN 10084-1998 , Number:	BS	(708M20)
1.7244	GOST	-
	AISI	-
	UNI	-
	NF A35-551-86	18CD4g

Under **EN10084-1998** standard C18CrMoS4 Alloy steel properties and heat treatment forgings, Including **18CrMoS4 Alloy steel** application and specifications, We have all specifications. Including 18CrMoS4 Alloy steel bars, rod, Plate, bar, square steel, rectangular steel, forgings, **BEBON CHINA** can own production and sales.

18CrMoS4 steel plate Chemical composition (cast analysis)

Chemical elements	C	Si max	Mn	P max.	S	Cr	Mo	-
%, by mass	0,15-0,21	0,40	0,60-0,90	0,035	0,020-0,040	0,90-1,20	0,15-0,25	-
Permissible deviation	± 0,02	+ 0,03	± 0,04	+ 0,005	± 0,005	± 0,05	± 0,03	-

18CrMoS4 steel sheet Hardness limits for steel

Hardness HRC at a distance from quenched end of test piece (in millimetres) of

mm	1,5	3	5	7	9	11	13	15	20	25	30	35	40	45	50	
+H	max	47	46	45	42	39	37	35	34	31	29	28	27	26	-	-
	min.	39	37	34	30	27	24	22	21	-	-	-	-	-	-	-
+HH	max	47	46	45	42	39	37	35	34	31	29	28	27	26	-	-
	min.	42	40	38	34	31	28	26	25	22	20	-	-	-	-	-
+HL	max	44	43	41	38	35	33	31	30	27	25	24	23	22	-	-
	min.	39	37	34	30	27	24	22	21	-	-	-	-	-	-	-

Hardness requirements for products delivered in the conditions "treated to improve shearability" (+S), "annealed to maximum hardness requirements" (+A), "treated to hardness range" (+TH) or "treated to ferrite-pearlite structure and hardness range" (+FP)

Brinell hardness in the condition

+S max.	+A max.	+TH min.	+TH max.	+FP min.	+FP max.
*	207	156	207	140	187

Non-metallic inclusions Requirements for microscopic degree of purity when tested in accordance with DIN 50
BEBON international — We are specialized in hot rolled steel plate/coil.

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602 (method K) (valid for oxidic non-metallic inclusions)

D (mm) Bars Diameter d (mm)	K Total characteristic value K (oxides) for the individual cast
140 < d ≤ 200	K 4 ≤ 50
100 < d ≤ 140	K 4 ≤ 45
70 < d ≤ 100	K 4 ≤ 40
35 < d ≤ 70	K 4 ≤ 35
17 < d ≤ 35	K 3 ≤ 40
8 < d ≤ 17	K 3 ≤ 30
d ≤ 8	K 2 ≤ 35

Conditions for heat treating test bars and treatment of the steels

End quenchh test Quenching, 0C	Carbunnzing temperature, 0C	Core-hardening temperature, 0C	Case-hardening temperature, 0C	Tempering, 0C
880	880 to 980	860 to 900	780 to 820	150 to 200

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