



ALLOY STEEL GRADE 1

Grade	C	Min.	Si.	Cr.	Ni	MO	V
EN 1A	0.7/.15	.80/1.20	10 MAX				
EN 8	.35/.45	.60/1.00	.05/.35				
EN 8D	.40/.45	.70/.90	.05/.35				
EN 9	.50/.60	.50/.80	.05/.35				
EN 19	.35/.45	.50/.80	.10/.35	.90/1.5		.20/.35	
En 24	.35/.45	.45/.70	.10/.35	.90/1.4	1.3/1.8	.20/.35	
En 31	.90/1.2	.30/.75	.10/.35	1.0/1.6			
En 36B	.12/.18	.30/.60	.10/.35	.60/1.1	3.0/3.7		
En 36C	.12/.18	.30/.60	.10/.35	.60/1.1	3.0/3.7	.10/.25	
En 41B	.35/.40	.65Max	.10/.45	1.4/1.8	.40 Max	.10/.25	+A1.30/1.90
En 42 J	.75/.90	.60/.90	.35 Max				
En 47	.45/.55	.50/.80	.50Max	.80/1.2			.15 Min
En 353	.20 Max	.50/1.0	.35 Max	.75/1.2	1.0/1.5	.08/1.5	
En 354	.20 Max	.50/1.0	.35 Max	.75/1.2	1.5/2.0	.10/.20	
16 MnCr5	.14/.19	1.0/1.3	.15/.40	.80/1.1			
20 MnCr5	.17/.22	1.1/1.4	.15/.40	1.0/1.3			
15 CrN16	.12/.17	.40/.60	.15/.40	1.4/1.7	1.4/1.7		
18 CrN18	.15/.20	.40/.60	.15/.40	1.8/2.1	1.8/2.1		
17CrNiMo6	.14/.19	.40/.60	.15/.40	1.5/1.8	1.4/1.7	.25/.35	

ALLOY STEEL GRADE 2

Grade	C	Min.	Si.	Cr.	Ni	MO	V
50Cr4/V2	.45/.55	.50/.80	.10/.35	.90/1.2			.15/.30
42CrV6	.35/.45	.50/.80	.10/.35	.90/1.2			.10 Min
60Cr4V2	.55/.65	.80/1.0	.10/.35	.90/1.2			.15 Min
58Cr4V4	.47/.55	.70/1.1	.15/.40	.90/1.2			.10/.20
CK35/35CB	.32/.39	.50/.80	.15/.35				
CK14/45CB	.42/.50	.50/.80	.15/.35				
CK55	.52/.60	.60/.90	.15/.35				
CK60	.57/.65	.60/.90	.15/.35				
4340	.38/.48	.60/.80	.15/.30	.70/.90	1.6/2.0	.20/.30	
8620	.18/.23	.70/.90	.15/.30	.40/.60	.40/.70	.15/.25	
52100	.98/1.1	.25/.45	.15/.30	1.3/1.6			
My Extra	.48	.30	.90	1.1	(+W.1.90)		20
V6N	.90	.30	.20		.70		.20
S2	.40/.55	.30/.50	.90/1.2			.30/.60	.50 Max
S4	.50/.65	.60/.95	1.7/2.2	.10/.50			.15/.35
AISI/SAE							
1008	.10 Max	.30/.50					
1010	.8/.13	.30/.60					
1015	.13/.18	.30/.60					
1020	.18/.23	.30/.60					
1040	.37/.44	.60/.90					
1045	.43/.50	.60/.90					
4140	.38/.43	.75/1.0	.15/.30	.80/1.1		.15/.25	
4150	.48/.53	.75/1.0	.15/.30	.80/1.1		.15/.25	

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TOOL & DIC STEEL GRADE 1

Grade	C	Min.	Si.	Cr.	MO	V	W	Co.
HSS6/5/2 M2.	.82/.92	.15/.40	.15/.40	3.7/4.5	4.5/5.5	1.6/2.2	5.5/6.7	
M35	.85/.95	.20/.40	.15/.40	3.7/4.5	4.7/5.5	1.7/2.2	5.7/6.7	4.7/5.0
M42	1.0/1.15	.15/.40	.15/.40	3.5/4.5	9/10	.90/1.3	1.1/1.8	7.7/8.
HSS18/4/IT1	.65/.80	.20/.40	.15/.40	3.7/4.5		.90/1.3	17/19	
T4	.70/.80	.20/.40	.15/.40	3.7/4.5	.60/1.0	.80/1.2	17.2/19	4.5/5.
T6	.75/.85	.20/.40	.15/.40	4.0/4.8	.40/1.0	1.2/1.7	19.5/21	11/12.
T42	1.2/1.3	.20/.40	.15/.40	3.7/4.5	3/4	2.8/3.5	8.8/10.7	8.8/10.
P-20	.28/.40	.80/1.4	.20/.80	1.4/2.0	.15			
Px4	.20	.80/1.4	.20/.80	1.4/2.0	.30			
Din 2714	.50/.60	.65/.95	.10/.40	1.0/1.2	.45/.55	.07/.12		+NiL .5/1.8
2713	.50/.60	.65/.95	.10/.40	.60/.80	.25/.35	.07/.12		+NiL .5/1.8
O. H. N. S (W) 01	.85/95	1.0/1.3	.20/.40	.40/.60		.20 Opt	.40/.60	
O. H. N. S 02	.85/95	1.4/1.8	.20/.40	.35 Opt	.30 Opt	.20 Opt		
90 MnV8/MST	.85/.95	1.9/2.1	.10/.40	.20/.50		.05/1.5		
A-2	.95/1.05	.45/.75	.20/.40	4.7/5.5	.90/1.4	.40 Opt		
H. C. H. Cr D2	1.4/1.6	.30/.50	.30/.50	11/33	.70/1.2	.80 Opt		.60 Opt
H. C. H. Cr D3	2.0/2.3	.25/.45	.25/.45	11/33	.80 Opt	.80 Opt	.75 Opt	
Hot Dic H11	.30/.40	.20/.40	.80/1.2	4.7/5.5	1.2/1.7	.30/.50		
H12	.30/.40	.20/.40	.80/1.2	4.7/5.5	1.2/1.7	.10/.50	1.0/1.7	
H13	.30/.40	.20/.40	.80/1.2	4.7/5.5	1.2/1.7	.80/1.2		
H21	.30/.40	.20/.40	.15/.30	3.0/3.7		.30/.50	8.5/10	

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