

MAIN STEELGRADE GROUPS



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MAIN STEELGRADE

SIMILAR QUALITY

		C x 01 min max	Si x 01 min max	Mn x 01 min max	P x 001 min max	S x 001 min max	Cr x 01 min max	Ni x 01 min max	Mo x 01 min max	V x 01 min max	Cu x 01 min	Al x 001 min max
12CRMO19.5	A182F5, A182F22	9 14	30 40	35 55	0 20	0 12	410 460	0 30	47 55	0 2	30	15 25
14CRMOV6-9	14CRMOV6-9	12 16	15 23	85 100	0 20	0 15	130 145	0 20	83 95	20 28	25	25 35
16MNCRS5 -3	16MnCr5, 16MnCr5 -A, 16MnCr5 -Q, 16MnCr5-S, 16MNCRS5HH, 16MNCRS5X10, 16MNCRS5X25, 16MNCRS5X30, 16MnCrS5, 16MnCrS5 -5, 16MnCrS5 -3, 16MnCrS5 -S, 16MNCRS5HH, 16MNCRS5T -S, 20MnCr5, 20MNCRS5X10, 20MNCRS5HH, 20MNCRS5HH -2, 20MNCRS5HH -3, 16MnCr5+B, VW4221 -2	17 19	22 30	120 128	0 20	20 35	102 110	0 20	0 5	0 2	25	20 30
17CRNIMO6	18NICRMO5, 18NICRMO5 -5, 18NICRMO5 -A, 17CRNIMO6 -I, 21NICRMO5, 17CRNIMO7-6HH	15 17	25 35	50 55	0 20	0 15	155 165	147 157	29 32	0 2	30	15 25
20MOCRS4	25MOCR4, 20MOCR4 -S, 20MOCR4X10, 20MOCRS4 -3, 20MOCRS4HH, 20MOCRS4HH -2, 25MOCRS4, 25MOCR4 -0, 20MOCR4 -2	17 22	15 35	75 95	0 20	20 35	40 55	0 20	40 50	0 2	35	15 25
34CRNIMO6	30CRNIMO8, 30CRNIMO8HH, 34CRNIMO6X1, 35NCD6	32 37	20 35	55 70	0 12	0 12	150 165	150 165	20 25	0 2	35	15 25
35S20	9SMn28, 9SMN28X0, 45S20	33 38	15 30	90 110	0 50	180 220	0 20	0 20	0 5	0 2	35	0 5
38MNSIVS5 -8	27MNSIVS6 -5, 27MNSIVS6, C27, 27MNV6, 27MNVS6, 27MNSIVS6, 39MNV6, 20MNVS5, 30MNVS6, 30MNVS6 -3, VWTL1438, 38MNVS6, 38MNSIVS5, 38MNVS5, 38MNSIVS5 -10, 38MNSIVS5 -9, 38MNSIVS5 -S, 38MNVS5 -S, 18MNVS5 -2, C38MOD, C38VW1235, V2905	35 38	50 65	140 150	0 20	45 60	15 20	3 15	1 5	8 11	22	10 20
39NICRMO3 -A	20NICRMO2, 20NICRMO2S, 20NICRMO2 -S, SAE8630	38 41	20 35	65 75	0 20	20 35	75 90	80 90	20 23	0 2	30	20 30
41CRS4 -G	34CR4, 41CRS4, 41CR4, 34CRS4, 41CRS4 -3, 41CRS4 -R	42 44	20 35	73 80	0 20	20 30	105 112	0 20	0 6	0 2	25	20 30

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		C x 01 min max	Si x 01 min max	Mn x 01 min max	P x 001 min max	S x 001 min max	Cr x 01 min max	Ni x 01 min max	Mo x 01 min max	V x 01 min max	Cu x 01 min	Al x 001 min max
42CRMO4HH	25CRMOS4, 34CRMO4, 34CRMO4N10, 42CRMO4, 42CRMO4MOD, 42CRMO4-7, 42CRMO4-G, 42CRMO4-S, 42CRMO4HH, 42CRMO4X1, 42CrMoS4, 42CrMoS4-2, 42CrMoS4-9, 42CRMOS4HH, 42CRMOS4HH-2, 50CRMO4, 50CRMO4HH-2, 50CRMO4HH-3, SAE4130MOD	40 44	20 35	70 80	0 25	0 15	100 110	0 20	20 25	0 2	35	15 25
51CRV4	50CRV4, 50CRV4X1, 51CRV4HH-2	48 53	15 35	85 100	0 20	0 15	95 115	0 20	0 5	12 15	35	15 25
C15 -S	C10, C10E, C15, C15-S, C15X10, RSt 37-2, S235JRG2, S275, A44, CK15	14 17	20 30	50 60	0 15	20 30	10 15	0 25	0 3	0 2	25	20 30
C22.8 -D	C22, C22-2, C22-3, C22.8, C22N3, C25, ST50-2, ST50-2-S, CM22	18 22	20 35	70 90	0 20	0 15	10 20	0 20	0 5	0 2	25	20 30
C35TYPA	30MN5-4, 30MN5-S, 30MNB5-2	35 39	20 35	150 170	0 20	25 40	30 45	0 20	0 4	0 2	20	20 30
C45 -2	C35, C35-3, C35X10, C40, C40-S, C45, C45-10, C45-11, C45-14, C45-15, C45-16, C45-19, C45-2, C45-20, C45-21, C45-22, C45-23, C45-3, C45-7, C45-S, C45FK-2, C45HH, C45X10, C45X24, C60-4, C45+CR, ST70-2, C50, C55, C60, ZF148, CM45, C45R, CK60, C60E, CK45-4, CK35, C35E, 2C45, CF53X20	46 50	20 40	70 80	0 15	20 35	15 20	0 20	0 5	0 2	25	20 30
CDP30	CDP30	29 31	145 160	60 70	0 15	0 10	185 200	25 30	27 30	9 12	25	10 25
SAE1141	SAE1151	38 44	20 35	140 160	0 30	85 125	0 20	0 20	0 5	0 2	35	0 5
ST52-3 -3	St 52-3, St 52-3-2, St 52-3-8, St 52-3-13, St 52-3-16, St 52-3-7, ST52-3VNB, S355K2G4, S355J2G3, PST52-3, LF2, 30MN5, TSTE355, PST52-3, PST52-3X1, PST52-3-S, S355J2G3-10, S355J2G3-2, S355J2G3-5, SAF460, TSTE460, LF2-11, LF2-4, LF2-6, SA1A, 20A	16 20	20 40	120 145	0 20	20 35	0 10	0 25	0 5	0 2	25	20 30