

## Steel Grades Comparison Table

### Case Hardening Steels

Material Nr.	ISO (683/1, 10, 11)	SAE AISI	BS 970 Part-1	DIN	NF A35 - 551 - 554	JIS G 4052
1.5713	13NiCr6	3115	-	13NiCr6	10NC6	-
1.5752	14NiCr14	3415 - 3310	655H13	14NiCr14	14NC12	-
1.5919	15CrNi6	3115	S107.970-3	15CrNi6	16NC6	-
1.5920	18CrNi8	6264	080M46	18CrNi8	-	-
1.6523	21NiCrMo2	8620	805H20.805M20	21NiCrMo2	20NCD2	SNCM220H
1.6587	17NiCrMo6	4820, 4317	820A16	17NiCrMo6	18NCD6	-
1.7015	15Cr3	5015	523M15.530A32	15Cr3	12C3.15Cr2.18C3	-
1.7034	34Cr4	5135	530A36.530M36	34Cr4	37Cr4.38C4	-
1.7035	41Cr4	5140	530A40.530M40	41Cr4	41Cr4.42C4	-
1.7131	16MnCr5	5115	527M17.590H17	16MnCr5	16MC5.16MnCr5	-
1.7139	16MnCrS5	5115	527M17.590H17	16MnCrS5	16MC5	SMnC420H
1.7147	20MnCr5	5120	-	20MnCr5	20MC5	SMnC420H
1.7149	20MnCrS5	4820, 4826	-	20MnCrS5	-	-
1.7243	18CrMo4	-	708M20	18CrMo4	18CD4	-
1.7321	20MoCr4	8620	805A22	20MoCr4	20MoCr4KD	-
1.7323	20MoCrS4	8620	-	20MoCrS4	-	-
1.7352	25CrMo4	-	-	25CrMo4	-	-
1.7326	25CrMoS4	-	-	25CrMoS4	-	-

### Tempered Steels

Material Nr.	ISO (683/1, 10, 11)	SAE AISI	BS 970 Part - 1	DIN	NF A35 - 551 - 554	JIS G 4052
1.6511	-	4340, 9840	817M37, 816M40	36CrNiMo4	35NCD5, 40NCD3	-
1.6580	-	4340	823M30	30CrNiMo8	30CND8	SNCM431
1.6582	-	4340, 4337	816M40, 817M40	34CrNiMo6	35NCD3	SNCM447
1.7006	-	5045, 5046	-	46Cr2	42C2, 46Cr2	-
1.7033	34Cr4	5132	530A32, 530M32	34Cr4	32C4, 34Cr4	SCr430
1.7034	34Cr4	5135	530A36, 530M32	37Cr4	38Cr4, 38C4	SCr435
1.7035	41Cr4	5140	530A40, 530M40	41Cr4	41Cr4, 42C4	SCr440
1.7218	-	4130	708A25	25CrMo4	25CD4, 25CrMo4	SCM430
1.7220	34CrMo4	4135, 4137	708A37	34CrMo4	35CrMo4, 35CD4	SCM432
1.7225	42CrMo4	4140, 4142	708M40, 311-5/1	42CrMo4	42CD4TS	SCM440
1.7228	-	4150	708A47	50CrMo4	50CrMo4	SCM445

**ISO:** International Organization for Standardization

**BS:** British Standards

**UNI:** Ente Nazionale

**DIN:** Deutsches Institut für Normung / German Standards

**AISI:** American Iron and Steel Institute

Italiano di Unificazione

**SAE:** Society Automotive Engineers

**JIS:** Japan Industrial Standards

**NF:** Norme Francaise

## Steel Grades Comparison Table

### Cold Work Tool Steels

Material Nr.	DIN	AISI	BS	NF / AFNOR	JIS
1.2080	X210Cr12	D3	BD3	Z200C12, X200Cr12	SKD1
1.2345	X50CrVMo 5 - 1	-	-	-	-
1.2379	X155CrVMo 12 - 1	D2	BD2	Z160CDV12	SKD11
1.2380	X220CrVMo 13 - 4	-	-	-	-
1.2436	X210CrW12	D6	D6	-	SKD2
1.2601	X165CrMoVa12	-	-	-	SKD11

### Hot Work Tool Steels

Material Nr.	DIN	AISI	BS	NF / AFNOR	JIS
1.2343	X38CrMoV 5 - 1	H11	BH11	Z38CDV5	SKD6
1.2344	X40CrMoV 5.1	H13	BH13	Z40CDV5	SKD61
1.2365	X32CrMoV 3.3	H10	BH10	32CDV28	SKD7
1.2367	X38CrMoV 5.3	H11	BH11	-	SKD61
1.2581	X30WCRV 9.3	H21	BH21	Z30WCV9	SKD5
1.2714	X 165CrMoVa 12	6F3, L6	BS224	55NCDV7	SKT4

### Plastic Mould Steels

Material Nr.	DIN	AISI	BS	ASTM	NF / AFNOR
1.2083	X42Cr13	420	SUS 420J2	-	X41CR13KU
1.2312	40CrMnMoS 8-6	P20 + S	-	-	-
1.2738	40CrMnNiMo 8 - 6 - 4	P20	SNCM	90MV8	40CMND8

### Oil Hardening Tool Steels

Material Nr.	DIN	AISI	BS	NF / AFNOR	JIS
1.2510	100MnCRW4	O1	-	-	SK33
1.2842	90MnCrV8	O2	B02	90MV8	-

### Spring Steels

Material Nr.	DIN	AISI	BS	NF / AFNOR	EN 100027-2
1.0900	38Si6	-	-	-	1.5022
1.0902	46Si7	9245	-	45S7	1.5024
1.0903	51Si7	9255	-	50S7	1.5025
1.0904	55Si7	5155H, 9225	251A58	55S7	1.5026
1.0908	60SiMn5	-	-	-	1.5142
1.0961	60SiCr7	9262	-	-	-
1.0970	38Si7	-	-	-	1.5023
1.5028	65Si7	9260H	251A61	60S7	1.5028
1.5029	71Si7	-	-	-	-
1.5225	51MnV7	-	-	-	-
1.7103	67SiCr8	9254	-	-	1.7103
1.7138	52MnCrB3	50B50	-	-	-
1.7176	55Cr3	5155	-	-	-
1.7701	51CrMoV7	-	-	-	-