

Internationaler Normenvergleich

Kurzname Abbrivation	Werkstoff Nr. Material-No.	Euro-Norm Bezeichnung	USA ASTM / AISI	Frankreich AFNOR	GB B.S.	Japan JIS	Italien UNI
Automatenstähle EN 10087 (DIN 1651)							
9 SMn 28	1.0715	11SMn30	1213 (SAE)	11SMn30; S 250	230 M 07	SUM 22	CF 9 SMn28
9 SMnPb 28	1.0718	11SMnPb30	12L13 (SAE)	11SMnPb30, S 250 Pb		SUM 22 L, 23L, 24L	CF 9 SMnPb 28
9 SMn 36	1.0736	11SMn37	1215 (SAE)	S 300		SUM 25	CF 9 SMn 36
9 S MnPb 36	1.0737	11SMnPb37	12L14 (SAE)	11SMnPb37, S 300 Pb			CF 9 SMnPb 36
35 S 20	1.0726	35S20	1140 (SAE)	35 MF 4, 35S20			
35 SPb 20	1.0756	35SPb20		35SPb20			
45 S 20	1.0727	46S20	1146 (SAE)	46S20			
45 SPb 20	1.0757	46SPb20		46SPb20			
Baustähle EN 10025 (DIN 17100) / EN 10277 (DIN 1652)							
St 37-2	1.0037	S235JR	1015 (SAE)	E 24-2	37/23 HR.HS.CR.CS CEW 3; En 40 B; ERW 3	STKM 12 A; STKM 12 C	Fe 360 B; Fe 360 B FU
St 44-2	1.0044	S275JR	1020 (SAE)	E 28-2	En 43 B	STK 41; STKM 19C; STKR 41	Fe 430 B
St 50-2	1.0050	E295		A 50-2	E295	SS 50	E295
St 52-3	1.0570	S355J2G3	1024 (SAE)	S355J2G3	En 50 D	SM 50 A	Fe 510
St 60-2	1.0060	E335		A 60-2	E335	SM 58	Fe 590
Vergütungsstähle EN 10083 (DIN 17200) Unlegierte Vergütungsstähle							
C 22	1.0402	C22	1020 (SAE); A 29 (M 1020) (ASTM); A 29 (M 1023) (ASTM)	AF 42	055 M 15; 070 M 20; 070 M 20; 22 HS.CS	S 20 C; S 22 C	C 20; C 21; C 22
Ck 22	1.1151	C22E	1023 (SAE)	C22E; XC 25	070 M 20	S 20 C; S 20 CK; S 22 C	C22E
Cm22	1.1149	C22R		C22R	C22R		C22R
C 35	1.0501	C35	1035 (SAE); 1040 (SAE)	AF 55; C 35	080 M 36; 40 HS.CS	S 35 C; S 35 CM	C 35
Ck 35	1.1181	C35E	1034 (SAE); 1035 (SAE)	C35E; C35RR; XC32; XC 35; XC 38 H 2	080 M 36	S 35 C; S 35 CM; S 38 C	C 35
Cm 35	1.1180	C35R		C35R	C35R		C 35
C 45	1.0503	C45	1043 (SAE); 1045 (SAE)	AF 65; C 45	080 M 46; 50 HS.CS	S 45 C; S 45 CM	C 45;
Ck 45	1.1191	C45E	1042 (SAE); 1045 (SAE) 1045 H (SAE)	C45E; C45RR; XC 45	080 M 46	S 45 C; S 45 CM; S 48 C	C 45
Cm 45	1.1201	C45R		C45R	C45R		C 45
Cf 53	1.1213	C 53		XC 48 TS		S 50 C; S 50 CM	C 53
C 55	1.0535	C55	1055 (SAE)	AF 70; C 54	070 M 55; 50	S 55 C; S 55 C-CSP; S 55 CM	C 55
CK 55	1.1203	C55E	1055 (SAE)	C55E; XC 54	070 M 55	S 55 C; S 55 C-CSP; S 55 CM	C 55
Cm 55	1.1209	C55R		C55R	C55R		C 55
C 60	1.0601	C60	1060 (SAE)	C 60	060 A 62; 60; 60 HS.CS	S 58 C; S 60 C-CSP; S 60 CM; S 65 C-CSP S 65 CM	C 60
Ck 60	1.1221	C60E	1064 (SAE)	C60E; C60RR; XC 60; XC 65	060 A 62; 070 M 60	S 58 C; S 60 C-CSP; S 60 CM; S 65 C-CSP; S 65 CM	C 60
Cm 60	1.1223	C60R		C60R	C60R		C 60
Legierte Vergütungsstähle							
34 Cr 4	1.7033	34Cr4	5132 (SAE); 5132 H (SAE)	32 C 4	34Cr4	SCR 2; SCR 2 H	34 Cr 4 KB; 34Cr4
34 CrS 4	1.7037	34CrS4		32 C 4 u	34CrS4		34CrS4
25 CrMo 4	1.7218	25CrMo4	4130 (SAE); 4130 H (SAE) 4130 RH (SAE)	25 CD 4	25CrMo4	SCCRM 1; SCM 2; SCM 22; SCM 420 TK; SCM 430 M; SCM 430 TK	25 CrMo4; 25 CrMo4 4 KB
25 CrMoS 4	1.7213	25CrMoS4		25 CD 4 u	25CrMoS4		25CrMoS4
34 CrMo 4	1.7220	34CrMo4	4130 (SAE); 4135 (SAE); 4135 H (SAE); 4137 (SAE); 4137 H (SAE)	34 CD 4	34CrMo4	SCCM3; SCM 1; SCM 3; SCM 3 H; SCM 435 M; SCM 435 TK	34 CrMo 4 KB; 34CrMo4; 35 CrMo 4 F
34 CrMoS 4	1.7226	34CrMoS4		34 CD 3 u	34CrMoS4		34CrMoS4
42CrMo 4	1.7225	42CrMo4	4140 (SAE); 4140 H (SAE) 4140 RH (SAE); 4142 H (SAE) A 372 (J1(55.65.70.110)) (ASTM) H 41400 (UNS)	40 CD 4	42CrMo4; 708 M 40; 709 M 40	SCM 4; SCM 4 H; SCM 440 M; SCM 440 TK; SNB 7 Class 2	38 CrMo 4 KB; 42 CrMo4; G 40 CrMo 4
42 CrMoS4	1.7227	42CrMoS4		42 CD 4 u	42CrMoS4		42CrMoS4
36 CrNiMo 4	1.6511	36CrNiMo4	6342 H (AMS)	36CrNiMo4; 40 NCD 3	36CrNiMo4		36CrNiMo4; 38 NiCrMo 4 KB
34 CrNiMo 6	1.6582	34CrNiMo6		34CrNiMo6	34CrNiMo6	SNCM 9	34CrNiMo6; 35 NiCrMo 6 KB
58 CrMoV 4	1.7792	-	-	-	-	-	-
Wälzlagerstähle DIN 17230							
100 Cr 6	1.3505	100 Cr 6	6440 K (AMS)	100 C 6; 100Cr6	2 S.135	SUJ 2; SUJ 4	100 Cr 6
100 CrMo 7 3	1.3536	100 CrMnMo 7	A 485 (3) (ASTM)	100CrMo7-3			
Werkzeugstähle DIN 17350							
X 19 NiCrMo 4	1.2764	-					
90 MnCrV 8	1.2842	90 MnV 8	A 681 (0 2) (ASTM)	90MnV8	B0 2		90 MnVc 8 KU
115 CrV 3	1.2210	107 CrV 3	A 681 (L2) (ASTM)				107 CrV 3 KU

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Einsatzstähle EN 10084 (DIN 17210)							
Unlegierte Einsatzstähle							
C 10	1.0301	-	1010 (SAE); a 29 (M 1010) (ASTM)	C10RR; XC 10	040 A 10; 045 M 10; 10 HS.CS	S 10 C	1 C 10; C 10
Ck 10	1.1121	C10E	1010 (SAE)	C10E; C10RR; XC 10	040 A 10	S 10 C; S 9 CK	2 C 10; 2 C 15
C 15	1.0401	-	A 29 (M 1015) (ASTM); A 29 (M 1017) (ASTM)	C18RR; XC 18	080 A 15; 17 HS.CS	S 15 C	1 C 15; C 15; C 16
C 15 Pb	1.0403	-					
Ck 15	1.1141	C15E	1015 (SAE); 1017 (SAE)	C15E; C18RR; XC 15; XC 18		S 15 C; S 15 CK	
Cm 15	1.1140	C15R		C15R			
Legierte Einsatzstähle							
16 MnCr5	1.7131	16MnCr5	5115 (SAE)	16 MC 5	527 M 17; 590 H 17; 590 M 17		16 MnCr 5
16 MnCrS 5	1.7139	16 MnCrS5		16MnCrS5			
20 MnCr 5	1.7147	20MnCr5	5120 (SAE); 5120 H (SAE)	20 MC 5		SMnCr 21 H	20 MnCr 5
20 MnCrS 5	1.7149	20MnCrS5		20MnCrS5			
15 CrNi 6	1.5919	-	4320 (SAE); 4320 H (SAE); 4320 RH (SAE)	16 NC 6			
14 NiCr 14	1.5752	15NiCr13	3310 (SAE); 3310 RH (SAE); 3312 (SAE); 3316 (SAE); 6263 H (AMS)	10 NC 12; 12 NC 15 13NiCr14; 14 NC 12 15NiCr13; 16 NC 12	655 H 13; 655 M 13	SNC 22; SNC 22 H	
18 CrNi 8	1.5920	-		20 NCD 2;			
21 NiCrMo 2	1.6523	20 NiCrMo 2-2	5333 D (AMS); 6272 H (AMS); 6274 L (AMS); 8617 (SAE); 8617 H (SAE); 8620 (SAE); 8620 H (SAE); 8620 RH (SAE); 8717 (SAE); A 5.2 (R100) (AWS)	22 NCD 2	805 H 20; 805 M 20; 806 M 20	SNCM 21; SNCM 21 H; SNCM 220 M	20 NiCrMo 2
17 CrNiMo 6	1.6587	18CrNiMo 7-6		18 CND 6; 18 NCD 6 18CrNiMo 7-6			
Nichtrostender Stahl EN 10088							
X10Cr13	1.4006	X12Cr13	410 (AISI); 5351 F (AMS); A 426 (CPCA-15) (ASTM); A 579 (51) (ASTM)	X12Cr13	410 C 21; 410 S 21; 410 S 21-690; ANC 1 grade A	SUS 410; SUS F 410-A; SUS F 410-B; SUS F 410-C SUS F 410-D; SUS410TKA SUS410TKC SUS 410J1	X10Cr13; C12 Cr13; X12Cr13 KG:KW; X12Cr13
X15Cr13	1.4024	X15Cr13	420 (SAE)	Z 12 C 13 M ; Z 13 C 13 Cl X20Cr13;	420 S 29		
X20Cr13	1.4021	X20Cr13	420 (AISI)	Z 20 C 13 Cl	420 S 37	SUS 420J1; SUS 420J1TKA	X 20 Cr 13
X46Cr13	1.4034	X46Cr13		X46Cr13; Z 38 C 13 M; Z 44 C 14 Cl	X46Cr13		X46Cr13
X65Cr13	1.4037	-					
X12CrMoS17	1.4104	X14CrMoS17	430 F (AISI)	X14CrMoS17	X14CrMoS17	SUS 430F	X14CrMoS17
X20CrNi172	1.4057	X17CrNi16-2	431 (AISI); A 579 (53) (ASTM)	X17CrNi16-2; Z 15 CN 16.02 Cl	431 S 29; 6 S.80	SUS 431	X17CrNi16-2
X20CrMo13	1.4120	-					
Austenitische Stähle							
X5CrNi1810	1.4301	X5CrNi18-10	304 (AISI); 304 (SAE)	X5CrNi18-10; Z 4 CN 19-10 FF; Z 6 CN 18-09	302 S 17; 304 S 15; 304 S 16; 304 S 17; 304 S 31;	SUS 304; SUS F 304; SUS304TKA; SUS304TKC SUS304TP	X 5 CrNi 18 10; X 5 CrNi 18 10 KG:KW X 5 CrNi 18 10 KT; X 5 CRNi 18-10 X 8 CrNiS18-9
X10CrNiS189	1.4305	X8CrNiS18-9	303 (AISI)	X8CrNiS18-9	303 S 22; 303 S 31;	SUS 303	X 5 CrNiMo 1712; X 5 CrNiMo 1712 KG:KW; X 5 CrNiMo 17-12-2
X5CrNiMo17122	1.4401	X5CrNiMo17-12-2	316 (AISI)	X5CrNiMo17-12-2; Z 6 CND 17-11; Z 6 CND 17-11-02 FF; Z 7 CND 17-11-02	316 S 17; 316 S 19; 316 S 31; 316 S 33	SUS 316; SUS F 316; SUS Y 316; SUS316TKA; SUS316TKC; SUS316TP;	
X6CrNiTi1810	1.4541	X6CrNiTi18-10	321 (AISI)	X6CrNiTi18-10; Z 6 CNT 18-10;	321 S 12; 321 S 31; 321 S 50; 321 S 51; 321 S 51 (1010); 321 S 51 (1105); 321 S 51-490; 321 S 51-510	SUS 321; SUS F 321; SUS321TKA; SUS321TP	X 6 CrNiTi 18 11; X 6 CrNiTi 18 11 KG:KW; X 6 CrNiTi 18 11 KT; X 6 CrNiTi 18-10
X6CrNiMoTi17122	1.4571	X6CrNiMoTi17-12-2	316 Ti (AISI)	X6CrNiMoTi17-12-2; Z 6 CNDT 17-12	320 S 18; 320 S 31;	SUS 316Ti	X 6 CrNiMoTi 17 12; X 6 CrNiMoTi 1712 KG:KW X 6 CrNiMoTi 17-12-2
Warmfeste Stähle							
X20CrMoV12-1	1.4922	X20CrMoV11-1			762		X 20 CrMoNi 12 01 KG:KW
X22CrMoV12-1	1.4923	-		Z 21 CDV 12			
X6CrNi18-11	1.4948	X6CrNi18-10	304 H (AISI); S 30480 (UNS)		304 S 50; 304 S 51		
X12CrNiWTi1613	1.4962	-					
X40CoCrNi20 20	1.4977	-	R 30590 (UNS)				

Weitere Werkstoffe auf Anfrage