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1 Hot rolled steel products; former and current description

1.1.1 Hot rolled products of structural steel:

Material number	Description according EN 10025	Description according EU 25 (expired)	Description according DIN 17100 (expired)
1.0035	S185	Fe 310-0	St 33
1.0037	S235JR	Fe 360 B	St 37-2
1.0036	S235JRG1	Fe 360 BFU	USt 37-2
1.0038	S235JRG2	Fe 360 BFN	RSt 37-2
1.0044	S275JR	Fe 430 B	St 44-2
1.0045	S355JR	Fe 510 B	-
1.0050	E295	Fe 490-2	St 50-2
1.0060	E335	Fe 590-2	St 60-2
1.0070	E360	Fe 690-2	St 70-2
1.0114	S235J0	Fe 360 C	St 37-3 U
1.0115	S235J0C	Fe 360 CKZ	ZSt 37-3 U
1.0115	S235J0C	Fe 360 CKQ	QSt 37-3 U
1.0116	S235J2G3	Fe 360 D1	St 37-3 N
1.0117	S235J2G4	Fe 360 D2	-
1.0118	S235J2G3C	Fe 360 D1KZ	ZSt 37-3 N
1.0118	S235J2G3C	Fe 360 D1KQ	QSt 37-3 N
1.0119	S235J2G4C	Fe 360 D2KZ	-
1.0120	S235JRC	Fe 360 BKZ	ZSt 37-2
1.0121	S235JRG1C	Fe 360 BFUKZ	UZSt 37-2
1.0121	S235JRG1C	Fe 360 BFUKQ	UQSt 37-2
1.0122	S235JRG2C	Fe 360 BFNKZ	RZSt 37-2
1.0122	S235JRG2C	Fe 360 BFNKQ	RQSt 37-2
1.0128	S275JRC	Fe 430 BKZ	ZSt 44-2
1.0128	S275JRC	Fe 430 BKQ	QSt 44-2
1.0140	S275J0C	Fe 430 CKZ	ZSt 44-3 U
1.0140	S275J0C	Fe 430 CKQ	QSt 44-3 U
1.0141	S275J2G3C	Fe 430 D1KZ	ZSt 44-3 N
1.0141	S275J2G3C	Fe 430 D1KQ	QSt 44-3 N
1.0142	S275J2G4C	Fe 430 D2KZ	-
1.0143	S275J0	Fe 430 C	St 44-3 U
1.0144	S275J2G3	Fe 430 D1	St 44-3 N
1.0145	S275J2G4	Fe 430 D2	-
1.0533	E295GC	Fe 490-2 KZ	ZSt 50-2
1.0543	E335GC	Fe 590-2 KZ	ZSt 60-2
1.0551	S355JRC	Fe 510 BKZ	-
1.0553	S355J0	Fe 510 C	St 52-3 U
1.0554	S355J0C	Fe 510 CKZ	ZSt 52-3 U
1.0554	S355J0C	Fe 510 CKQ	QSt 52-3 U
1.0569	S355J2G3C	Fe 510 D1KZ	ZSt 52-3 N
1.0569	S355J2G3C	Fe 510 D1KQ	QSt 52-3 N
1.0570	S355J2G3	Fe 510 D1	St 52-3 N
1.0577	S355J2G4	Fe 510 D2	-
1.0579	S355J2G4C	Fe 510 D2KZ	-



1.1.1 Hot rolled products of structural steel (continued):

Material number	Description according EN 10025	Description according EU 25 (expired)	Description according DIN 17100 (expired)
1.0593	S355K2G3C	Fe 510 DD1KZ	-
1.0594	S355K2G4C	Fe 510 DD2KZ	-
1.0595	S355K2G3	Fe 510 DD1	-
1.0596	S355K2G4	Fe 510 DD2	-
1.0633	E360GC	Fe 690-2 KZ	ZSt 70-2



1.1.2 Steels for quenching and tempering:

Material number	Description according EN 10083	Description according EU 83 (expired)	Description according DIN 17200 (expired)
1.0402	C22	-	C22
1.1151	C22E	-	Ck22
1.1149	C22R	-	Cm22
1.0406	C25	1 C 25	C 25
1.1158	C25E	2 C 25	Ck 25
1.1163	C25R	3 C 25	Cm 25
1.0528	C30	-	C 30
1.1178	C30E	-	Ck 30
1.1179	C30R	-	Cm30
1.0501	C35	1 C 35	C 35
1.1181	C35E	2 C 35	Ck 35
1.1180	C35R	3 C 35	Cm 35
1.0511	C40	-	C 40
1.1186	C40E	-	Ck 40
1.1189	C40R	-	Cm 40
1.0503	C45	1 C 45	C 45
1.1191	C45E	2 C 45	Ck 45
1.1201	C45R	3 C 45	Cm 45
1.0540	C50	-	C 50
1.1206	C50E	-	Ck 50
1.1241	C50R	-	Cm 50
1.0535	C55	1 C 55	C 55
1.1203	C55E	2 C 55	Ck 55
1.1209	C55R	3 C 55	Cm 55
1.0601	C60	1 C 60	C 60
1.1221	C60E	2 C 60	Ck 60
1.1223	C60R	3 C 60	Cm 60
1.1170	28Mn6	28 Mn 6	28 Mn 6
1.7003	38Cr2	38 Cr 2	38 Cr 2
1.7023	38CrS2	-	38 CrS 2
1.7006	46Cr2	46 Cr 2	46 Cr 2
1.7025	46CrS2	-	46 CrS 2
1.7033	34Cr4	34 Cr 4	34 Cr 4
1.7037	34CrS4	-	34 CrS 4
1.7034	37Cr4	37 Cr 4	37 Cr 4
1.7038	37CrS4	-	37 CrS 4
1.7035	41CR4	41 Cr 4	41 Cr 4
1.7039	41CrS4	-	41 CrS 4
1.7218	25CrMo4	A/B 25 CrMo 4	25 CrMo 4
1.7213	25CrMoS4	-	25 CrMoS 4
1.7707	30 CrMoV 9		
1.7220	34CrMo4	34 CrMo 4	34 CrMo 4
1.7226	34CrMoS4	-	34 CrMoS 4
1.7225	42CrMo4	42 CrMo 4	42 CrMo 4
1.7227	42CrMoS4	-	42 CrMoS 4



1.1.2 Steels for quenching and tempering (continued):

Material number	Description according EN 10083	Description according EU 83 (expired)	Description according DIN 17200 (expired)
1.7228	50CrMo4	-	50 CrMo 4
1.6511	36CrNiMo4	-	36 CrNiMo 4
1.6582	34CrNiMo6	35 CrNiMo 6	34 CrNiMo 6
1.6580	30CrNiMo8	30 CrNiMo 8	30 CrNiMo 8
1.6773	36NiCrMo16	36 CrNiMo 16	-
1.6959	35 NiCrMoV 12-5		
1.8159	51CrV4	50 CrV 4	50 CrV 4
1.5122	37 MnSi 5		
1.5530	20MnB5	-	-
1.5531	30MnB5	-	-
1.5532	38MnB5	-	-
1.5529	27MnCrB5	-	-
1.7185	33MnCrB5-2	-	-
1.7189	39MnCrB6-2	-	-

Explanation of abbreviations:

- S = Structural steel
- E = Engineering steel... followed by a three-digit number that represents the specified minimum Yield strength in N/mm² for the smallest thickness range

- (+U) = Untreated
- + N = Normalized or normalized rolled
- +AR = As rolled, untreated
- +NT = Normalized and tempered
- +A = Annealed
- +QT = Quenched and tempered

- JR = 27 J impact strength at room temperature (+ 20 °C)
- J0 = 27 J impact strength at a temperature of 0 °C
- J2 = 27 J impact strength at a temperature of -20 °C
- K2 = 40 J impact strength at a temperature of -20 °C
- L = 27 J impact strength at a temperature of -50 °C

- G1 = Rimming steel (FU)
- G2 = Rimming steel not permitted (FN)
- G3 = Fully killed delivery condition normalized or normalized rolled
- G4 = Fully killed delivery condition as chosen by manufacturer



1.1.3 Case hardening steel:

Material number	Description according EN 10084	Description according EU 84 (expired)	Description according DIN 17210 (expired)
1.0301			C10
1.0401			C15
1.0471			21 MnSi 5
1.1133			20 Mn 5
1.1141	C15E		Ck15
1.5752	15 NiCr 13		14 NiCr 14
1.5918	17 CrNi 6-6		17 CrNi 6-6
1.5919			15 CrNi 6
1.5920	18 CrNi 8		18 CrNi 8
1.6523	20NiCrMo2-2		21 NiCrMo 2
1.6587	18 CrNiMo 7-6		17 CrNiMo 6
1.7131	16 MnCr 5		16 MnCr 5
1.7147	20 MnCr 5		20 MnCr 5
1.7160	16 MnCrB 5		16 MnCrB 5
1.7168	18 MnCrB 5		18 MnCrB 5

1.1.4 Nitriding steel:

Material number	Description according EN 10085	Description according EU 85 (expired)	Description according DIN 17211 (expired)
1.7735	14 CrMoV 6-9		14 CrMoV 6-9
1.6580	30 CrNiMo 8		30 CrNiMo 8
1.5755			31 NiCr 14
1.8519	31 CrMoV 9		31 CrMoV 9
1.8521	15 CrMoV 5-9		15 CrMoV 5-9
1.7765			32 CrMoV 12-10
1.6655			32 NiCrMo 12-5
1.7033	34 Cr 4		34 Cr 4
1.8504			34 CrAl 6
1.8507			34 CrAlMo 5
1.8550	34 CrAlNi 7-10		34 CrAlNi 7-10
1.7220	34 CrMo 4		34 CrMo 4
1.6582	34 CrNiMo 6		34 CrNiMo 6
1.5122			37 MnSi 5
1.8523			39 CrMoV 13-9
1.7035	41 Cr 4		41 Cr 4
1.7225	42 CrMo 4		42 CrMo 4
1.8159	51 Cr 4		50 CrV 4
1.5141			53 MnSi 4
1.8161			58 CrV 4
1.8159	51 CrV 4		50 CrV4
1.7176			55 Cr 3



1.1.5 Flat products made of high temperature structural steel:

Material number	Description according EN 10028 / 10083 / 10269	Description according EU 28 / 83 (expired)	Description according DIN 17155 / 17240 (expired)
1.0345	P235GH	Fe E 235 KWTD	H I
1.0425	P265GH	Fe E 265 KWTD	H II
1.0481	P295GH	Fe E 295 KWTD	17 Mn 4
1.0473	P355GH	FE E 355-2 KWTD	19 Mn 6
1.5415	16 Mo 3	16 Mo3 KWTD	15 Mo 3
1.7218	25CrMo4	25 CrMo 4	25 CrMo 4
1.7258	25CrMo5	25 CrMo 5	25 CrMo 5
1.7335	13CrMo4-5	14 CrMo45 KWTD	10 CrMo 44
1.7380	10CrMo9-10	10 CrMo 9 10 KWTD	10 CrMo 9 10
1.7709	21CrMoV5-7	21 CrMoV 5-7	21 CrMoV 5 7
1.7733	24CrMoV5-5	24 CrMoV 5-5	24 CrMoV 5 5

Material number	Description according EN 10028	Description according EU 113 (expired)	Description according DIN 17155 (expired)
1.0486	<i>P275N</i>	FeE285KGTD	WStE285
1.0487	P275NH	FeE285KWTD	WStE285
1.0488	P275NL1	FeE285KTTD	TStE285
1.1104	P275NL2	-	EStE285
1.0562	P355N	FeE355KGTD	StE355
1.0565	P355NH	FeE355KWTD	WStE355
1.0586	P355NL1	FeE355KTTD	TStE355
1.1106	P355NL2	-	EStE355
1.8905	<i>P460N</i>	FeE460KGTD	EStE460
1.8935	P460NH	FeE460KWTD	WStE460
1.8915	P460NL1	FeE460KTTD	TStE460
1.8918	P460NL2	-	EStE460

Explanation of abbreviations:

- P = Steel for pressure purposes
- P...GH = For use at high temperatures
- P...N = For use at temperatures from -20° C until + 20 °C
- P...NH = resistant to high temperatures
- P...NL1 = resistant to low temperatures
- P...NL2 = resistant to ultra low temperatures

- (+U) = Untreated
- + N = Normalized or normalized rolled



1.2.1 Tool steel:

Material number	Description according DIN	Description according AISI / SAE	Cold work	Warm work	Plastics	Case h
1.1730	C45W / C45U	SAE 1045	X			
1.2067	102 Cr 6	AISI L3	X			
1.2080	X 210 Cr 12	AISI D3	X			
1.2083	X 42 Cr 13	AISI 420			X	
1.2085	X 33 CrS 16	-	X			
1.2101	62 SiMnCr 4	AISI S4	X			
1.2162	21 MnCr 5	AISI 5120				X
1.2201	X 165 CrV 12	-	X			
1.2210	115 CrV 4	AISI L6	X			
1.2307	29 CrMoV 9		X			
1.2311	40 CrMnMo 7	AISI P20			X	
1.2312	40 CrMnMoS 8-7	AISI P20+S			X	
1.2316	X 38 CrMo 16	-			X	
1.2343	X 37 CrMoV 5-1	AISI H11		X		
1.2344	X 40 CrMoV 5-1	AISI H13		X		
1.2345	X 50 CrMoV 5-1	-	X			
1.2363	X 100 CrMoV 5-1	AISI A2	X		X	
1.2365	32 CrMoV 12-28	~ AISI H11		X		
1.2367	X 38 CrMoV 5-3	AISI H10 +Cr		X		
1.2379	X 155 CrVMo 12-1	AISI D2	X	X	X	
1.2436	X 210 CrW 12	AISI D6	X			
1.2510	100 MnCrW 4	AISI O1	X			
1.2542	45 WCrV 7	~ AISI S1	X			
1.2550	60 WCrV 7	AISI S1	X			
1.2601	X 165CrMoV 12	~ AISI D2	X			
1.2606	X 37CrMoW 5-1	AISI H21	X			
1.2622	X 60 WCrMoV 9-4	-		X		
1.2711	54 NiCrMoV 6	~ AISI L6		X		
1.2713	55 NiCrMoV 6	-		X		
1.2714	55 NiCrMoV 7	~ AISI L6		X		
1.2721	50 NiCr 13	-	X			
1.2738	40 CrMnNiMo 8-6-4	AISI P20	X			
1.2764	X 19 NiCrMo 4	-				X
1.2767	X 45 NiCrMo 4	AISI 6F7	X		X	
1.2826	60 MnSiCr 4	AISI S4	X			
1.2842	90 MnCrV 8	AISI O2	X	X	X	
1.2885	X32 CrMoCoV 3-3-3	-		X		
1.2886	X 15 CrCoMoV 10-10-5	-		X		
1.2990	X 100 CrMoV 8-1-1 +A	-	X		X	
1.3401	X120 Mn 12	ASTM A128 75	X			
1.3505	100 Cr 6	AISI L1	X			



1.2.2 High speed steel:

Material number	Description according DIN	Description according AISI / SAE
1.2369	81 MoCrV 42-16	AISI M50
1.3207	HS 10-4-3-10	AISI T42
1.3243	HS 6-5-2-5	AISI M35
1.3244	HS 6-5-3-8	-
1.3247	HS 2-9-1-8	AISI M42
1.3302	HS 12-1-4	AISI T15 No Co
1.3325	HS 0-4-1	AISI M50
1.3326	HS 1-4-2	AISI M52
1.3343	HS 6-5-2	AISI M2
1.3344	HS 6-5-3	AISI M3/2
1.3345	HS 6-5-3C	AISI M3
1.3346	HS 2-9-1	AISI M1
1.3348	HS 2-9-2	AISI M7
1.3351	HS 6-5-4	~ AISI M4
1.3355	HS 18-0-1	AISI T1
1.3551	80 MoCrV 42-16	AISI M50



1.3 Bright steel:

Material number	Current description	Current stnd	Former description	Former stnd (expired)
1.0037	S235JRG2C+C	EN 10277-2	St 37-2 K	DIN 1652
1.0401	C15+C(+SH)	EN 10277-2	C15 K (SH)	DIN 1652-4
1.0501	C35+C(+SH)	EN 10277-2	C 35 K (SH)	DIN 1652-4
1.0501	C35+C+SL	EN 10277-2	C 35 K ground	DIN 1652-4
1.0503	C45+C(+SH)	EN 10277-2	C 45 K (SH)	DIN 1652-4
1.0503	C45+C+SL	EN 10277-2	C 45 K ground	DIN 1652-4
1.0570	S355J2G3C+C	EN 10277-2	St 52-3 K	DIN 1652
1.0715	11SMn30C(+SH)	EN 10277-3	9 SMn 28 K (SH)	DIN 1651
1.0718	11SMnPb30C(+SH)	EN 10277-3	9 SMnPb 28 K (SH)	DIN 1651
1.0736	11SMn37C(+SH)	EN 10277-3	9 SMn 36 K (SH)	DIN 1651
1.0737	11SMnPb37C(+SH)	EN 10277-3	9 SMnPb 36 K (SH)	DIN 1651
1.6582	34CrNiMo6+QT+SH	EN 10277-5	34CrNiMo 6 V SH	DIN 1652-4
1.7225	42CrMoS4+QT+SH	EN 10277-5	42 CrMoS 4 V SH	DIN 1652-4
1.7225	42CrMoS4+QT+SH+SL	EN 10277-5	42 CrMoS 4 V ground	DIN 1652-4
1.7131	16MnCr5+C	EN 10277-4	16 MnCr 5 K	DIN 1652-3

Explanation of abbreviations:

+C	=	Cold drawn
+SH	=	Peeled
+SL	=	Ground
+ A	=	Soft annealed
+ N	=	Annealed
+ PL	=	Polished
+QT	=	Quenched and tempered

For example:	S355J2G3C+C
For example:	S355J2G3C+SH
For example:	S355J2G3C+SH+SL
For example:	S355J2G3C+A+SH
For example:	S355J2G3C+N
For example:	S355J2G3C+A+SL+PL
For example:	42CrMo4+QT+SH



1.4 Spring steel:

Material number	Description according EN 10132-4	Description according DIN 17222 (expired)	Description according AISI / ASTM
1.0535	-	C55	1055
1.0601	-	C60	1060
1.0603	-	C67	1070
1.0605	-	C75	1074
1.1203	-	Ck55	1055
1.1204	C55S	-	1055
1.1211	C60S	-	1060
1.1217	C90S	-	-
1.1221	-	Ck60	1060
1.1224	C125S	-	-
1.1231	C67S	Ck67	1070
1.1248	C75S	Ck75	1078
1.1269	C85S	Ck85	1086
1.1274	C100S	Ck101	1095
1.2002	125Cr2	125 Cr 1	-
1.2067	102Cr6	100 Cr 6	52100
1.2235	-	80 CrV 2	-
1.5026	56Si7	55 Si 7	9255
1.5634	75Ni8	-	-
1.8159	51CrV4	50 CrV 4	-

Explanation of abbreviations:

+A	=	Soft annealed
+LC	=	Annealed and lightly rolled
+AC	=	Annealed for the formation of spherical carbides
+CR	=	Cold rolled
+QT	=	Quenched and tempered



2 Steel tubes & hollow sections; former and current description

2.1 Hot finished and cold formed tubes & hollow sections:

Materiaalnummer	Description according EN 10210 / 10219	Description according EU 25 (expired)	Description according DIN 17100 (expired)
1.0039	S235JRH	Fe 360 B	St 37-2
1.0149	S275J0H	Fe 430 C	St 44-3 U
1.0138	S275J2H	Fe 430 D	St 44-3 N
1.0576	S355J0H	Fe 510 C	St 52-3 U
1.0570	S355J0H	Fe 510 D	St 52-3 N
1.0493	S275NH	-	St E 285 N
1.0497	S275NLH	-	TSt E 355 N
1.0539	S355NH	-	St E 355 N
1.0549	S355NLH	-	TSt E 355 N
1.8953	S460NH	-	St E 460 N
1.8956	S460NLH	-	TSt E 460 N

Explanation of abbreviations:

S	=	Structural steel
JR	=	27 J impact strength at room temperature (+ 20 °C)
J0	=	27 J impact strength at a temperature of 0 °C
J2	=	27 J impact strength at a temperature of -20 °C
K2	=	40 J impact strength at a temperature of -20 °C
L	=	27 J impact strength at a temperature of -50 °C
H	=	Hollow sections



3 Cold rolled sheet metal; former and current description

3.1.1 Cold rolled low carbon steel sheet for cold forming

Material number	Description according EN 10130	Description according EU 130 (expired)	Description according DIN 1623 (expired)
1.0330	DC01	Fe P 01	St 12
1.0347	DC03	Fe P 03	RR St 13
1.0338	DC04	Fe P 04	St 14
1.0312	DC05	Fe P 05	St 15
1.0873	DC06	Fe P 06	IF 18 (SEW 095)

3.1.2 Cold rolled steel sheet with high yield strength for cold forming:

Material number	Description according EN 10268	Description according SEW 093 (expired)	Description according DIN
1.0480	H240LA	ZStE 260	-
1.0489	H280LA	ZStE 300	-
1.0548	H320LA	ZStE 340	-
1.0550	H360LA	ZStE 380	-
1.0556	H400LA	ZStE 420	-



3.2 Electrolytically zinc coated cold rolled steel sheet for cold forming:

Material number	Description according EN 10152	Description according EU 152 / 130 (expired)	Description according DIN 17163 (expired)
1.0330	DC01+ZE	Fe P 01 GZ E	St 12 ZE
1.0347	DC03+ZE	Fe P 03 GZ E	RR St 13 ZE
1.0338	DC04+ZE	Fe P 04 GZ E	St 14 ZE
1.0312	DC05+ZE	Fe P 05 GZ E	St 15 ZE
1.0873	DC06+ZE	Fe P 06 GZ E	IF 18

3.3 Continuously hot-dip aluminium-silicon (AS) coated steel sheet:

Material number	Description according EN 10154	Description according EU 154 (expired)	Description according DIN
1.0226	DX51D+AS	Fe P 01 GA en Fe P 02 GA	-
1.0350	DX52D+AS	Fe P 03 GA	-
1.0355	DX53D+AS	Fe P 04 GA	-
1.0306	DX54D+AS	-	-
1.0309	DX55D+AS	-	-
1.0242	S250GD+AS	-	-
1.0244	S280GD+AS	-	-
1.0250	S320GD+AS	-	-
1.0529	S350GD+AS	-	-



3.5.1 Continuously hot-dip coated sheet of low carbon steels for cold forming (Sendzimir):

Material number	Description according EN 10327 (previously 10142)	Description according EU 142 (expired)	Description according DIN 17162-1 (expired)
1.0226	DX51D+Z	Fe P 02 G Z	St 02Z
	DX51D+ZF	Fe P 02 G ZF	
1.0350	DX52D+Z	Fe P 03 G Z	St 03Z
	DX52D+ZF	Fe P 03 G ZF	
1.0355	DX53D+Z	Fe P 05 G Z	St 04Z
	DX53D+ZF	Fe P 05 G ZF	
1.0306	DX54D+Z	Fe P 06 G Z	-
	DX54D+ZF	Fe P 06 G ZF	

3.5.2 Continuously hot-dip coated sheet of structural steels (Sendzimir):

Material number	Description according EN 10326 (previously 10147)	Description according EU 147 (expired)	Description according DIN 17162-2 (expired)
1.0241	S220GD+Z	Fe E 220 G Z	-
	S220GD+ZF	Fe E 220 G ZF	
1.0242	S250GD+Z	Fe E 250 G Z	St E250-2Z
	S250GD+ZF	Fe E 250 G ZF	
1.0244	S280GD+Z	Fe E 280 G Z	St E280-2Z
	S280GD+ZF	Fe E 280 G ZF	
1.0250	S320GD+Z	Fe E 320 G Z	St E320-3Z
	S320GD+ZF	Fe E 320 G ZF	
1.0529	S350GD+Z	Fe E 350 G Z	St E350-3Z
	S350GD+ZF	Fe E 350 G ZF	
1.0531	S550GD+Z	Fe E 550 G Z	-
	S550GD+ZF	Fe E 550 G ZF	



3.6.1 Continuously hot rolled low carbon steel plate for cold forming:

Material number	Description according EN 10111	Description according EU111.77 (expired)	Description according DIN 1614 (expired)
1.0332	DD 11	Fe P 11	StW 22
1.0398	DD 12	Fe P 12	RRStW 23
1.0335	DD 13	Fe P 13	StW 24
1.0389	DD 14	-	-

3.6.2 Hot rolled plate made of high yield strength steel for cold forming (thermomechanically rolled):

Material number	Description according EN 10149-2	Description according SEW 092 (expired)	Description according EU 149-2 (expired)
-	-	QStE 260 TM	Fe E 275-TM
1.0972	S315MC	QStE 300 TM	-
1.0976	S355MC	QStE 360 TM	Fe E 355-TM
1.0980	S420MC	QStE 420 TM	Fe E 420-TM
1.0982	S460MC	QStE 460 TM	-
-	-	-	Fe E 490-TM
1.0984	S500MC	QStE 500 TM	-
1.0986	S550MC	QStE 550 TM	Fe E 560-TM
1.8969	S600MC	QStE 600 TM	-
1.8976	S650MC	QStE 650 TM	-
1.8974	S700MC	QStE 690 TM	-



3.6.3 Hot rolled plate made of high yield strength steel for cold forming (normalized or normalized rolled):

Material number	Description according EN 10149-3	Description according SEW 092 (expired)	Description according EU 149-2 (expired)
1.0971	S260NC	QStE 260N	-
-	-	-	Fe E 275-TD
1.0973	S315NC	QStE 300 N	-
1.0977	S355NC	QStE 360 N	Fe E 355-TD
1.0981	S420NC	QStE 420 N	Fe E 420-TD
-	-	QStE 460 N	-
-	-	QStE 500 N	Fe E 490 TD

Explanation of abbreviations:

- S = Structural steel
E = Engineering steel... followed by a three-digit number that represents the specified minimum Yield strength in N/mm² for the smallest thickness range
- D = Flat products for cold forming followed by one of the following letters:
- C for cold rolled products
 - D for hot-rolled products which will be cold deformed
 - X for products whose method of rolling is not declared followed by two symbols, which characterize the steel grade
- Z = Zinc coating
ZA = Zinc-Aluminium coating
AZ = Aluminium-Zinc coating
ZF = Iron-Zinc coating
AS = Aluminium-Silicon coating
- M = Rolling process, in which the last deformation in a certain temperature range is carried out so that a material state is obtained with certain properties that not only by a heat treatment can be attained or repeated.
- N = Rolling process, in which the last deformation in a certain temperature range is carried out so that a material state is obtained with certain properties that not by a heat treatment can be attained or repeated.
- C = Suitable for cold forming



3.6.4 Normalized or normalized rolled fine grain structural steel plate:

Material number	Description according EN 10025	Description according EU 113 (expired)	Description according DIN 17102 (expired)
1.0490 (previously 1.0486)	S275N	FeE285KGN	StE 285
1.0491 (previously 1.0488)	S275NL	FeE285KTN	TStE 285
1.0545 (previously 1.0562)	S355N	FeE355KGN	StE 355
1.0546 (previously 1.0566)	S355NL	FeE355KTN	TStE 355
1.8902	S420N	FeE420KGN	StE 420
1.8912	S420NL	FeE420KTN	TStE 420
1.8901 (previously 1.8905)	S460N	FeE460KGN	StE 460
1.8903 (previously 1.8915)	S460NL	FeE460KTN	TStE 460

3.6.5 Thermomechanically rolled fine grain structural steel plate:

Material number	Description according EN 10025	Description according EU 113 (expired)	Description according SEW 083 (expired)
1.8818	S275M	FeE275KGTM	-
1.8819	S275ML	FeE275KTTM	-
1.8823	S355M	FeE355KGTM	S355M
1.8834	S355ML	FeE355KTTM	S355ML
1.8925	S420M	FeE420KGTM	-
1.8836	S420ML	FeE420KTTM	-
1.8827	S460M	FeE480KGTM	S460M
1.8838	S460ML	FeE480KTTM	S460ML

Explanation of abbreviations:

- S = Structural steel, including fine grain structural steel
- S...N = Normalized or normalized rolled with minimum impact strength at a temperature not lower than -20 ° C
- S...NL = Normalized or normalized rolled with minimum impact strength at a temperature not lower than -50 ° C
- S...M = Thermomechanically rolled with minimum impact strength at a temperature not lower than -20 ° C
- S...ML = Thermomechanically rolled with minimum impact strength at a temperature not lower than -50 ° C



3.6.6 Hot rolled high yield strength structural steel plate in quenched and tempered condition:

Material number	Description according EN 10025	Description according EU	Description according Stahl Eisen Liste (expired)
1.8908	S460Q		-
1.8906	S460QL		TStE460V
1.8916	S460QL1		-
1.8924	S500Q		StE500V
1.8909	S500QL		TStE500V
1.8984	S500QL1		EStE500V
1.8904	S550Q		StE550V
1.8926	S550QL		TStE550V
1.8986	S550QL1		EStE550V
1.8914	S620Q		StE620V
1.8927	S620QL		TStE620V
1.8987	S620QL1		EStE620V
1.8931	S690Q		StE690V
1.8928	S690QL		TStE690V
1.8988	S690QL1		EStE690V
1.8940	S890Q		StE890V
1.8983	S890QL		TStE890V
1.8925	S890QL1		EStE890V
1.8941	S960Q		StE960V
1.8933	S960QL		TStE960V

Explanation of abbreviations:

- S = Structural steel, including fine grain structural steel
- S...Q = Impact strength at a temperature not lower than -20 ° C
- S...QL = Impact strength at a temperature not lower than -40 ° C
- S...QL1 = Impact strength at a temperature not lower than -60 ° C
- Z = Grade with improved properties perpendicular to the surface



3.6.7 Hot rolled wear resistant steel plate:

Material number	Description according DIN	Brand names such as
1.8702	20 MnCr 5 4	Dillidur 250 L
1.8703	20 MnCr 6 4	
1.8704	20 MnCr 6 5	
1.8705	21 MnCr 6 5	Dillidur 325 L
1.8711	21 MnCr 4 3	
1.8713	22 MnCr 4 3	
1.8714	24 MnCr 4 3	
1.8715	17 MnCr5 3	Dillidur 400 V / XAR 400 / Fora 400 / Brinair 400 Cr / Durostat 400
1.8720	18 MnCr 5 3	Dillidur 450 V
1.8721	26 MnCr 6 3	Dillidur 500 V / XAR 500 / Brinair 500 / Durostat 500
1.8731	25 MnCr 4 3	
1.8732	26 MnCr 4 3	
1.8733	27 MnCr 4 3	
1.8734	28 MnCr 4 3	
1.5069	36 MN 7	Duromax 200 U
1.5085	51 Mn 7	Duromax 265 U

Explanation of abbreviations:

L	=	Hardened, cooled in air
V	=	Hardened, cooled in water
Cr	=	Hardened, cooled in air



3.7 Hot rolled steel plate for pressure purposes (boiler plate):

Material number	Description according EN 10028	Description according EU 28 (expired)	Description according DIN 17155 (expired)
1.0345	P235GH	Fe E 235 KWTD	H I
1.0425	P265GH	Fe E 265 KWTD	H II
1.0481	P295GH	Fe E 295 KWTD	17 Mn 4
1.0473	P355GH	FE E 355-2 KWTD	19 Mn 6
1.5415	16Mo3	16 Mo 3 KWTD	15 Mo 3
1.7335	13CrMo4-5	14 CrMo 4 5 KWTD	13 CrMo 4 4
1.7380	10CrMo9-10	10 CrMo 9 10 KWTD	10 CrMo 9 10

Material number	Description according EN 10028	Description according EU 113 (expired)	Description according DIN 17155 (expired)
1.0486	P275N	FeE285KGTD	WStE285
1.0487	P275NH	FeE285KWTD	WStE285
1.0488	P275NL1	FeE285KTTD	TStE285
1.1104	P275NL2	-	EStE285
1.0562	P355N	FeE355KGTD	StE355
1.0565	P355NH	FeE355KWTD	WStE355
1.0586	P355NL1	FeE355KTTD	TStE355
1.1106	P355NL2	-	EStE355
1.8905	P460N	FeE460KGTD	EStE460
1.8935	P460NH	FeE460KWTD	WStE460
1.8915	P460NL1	FeE460KTTD	TStE460
1.8918	P460NL2	-	EStE460

Explanation of abbreviations:

- P = Steel for pressure purposes
- P...GH = Non alloy steel for use at high operating temperature, 27 J impact strength at -20 °C
- P...N = Normalized or normalized rolled for use at high operating temperature, 30 J impact strength at -20°C
- P...NH = Normalized or normalized rolled for use at high operating temperature, 30 J impact strength at -20°C
- P...NL1 = Normalized or normalized rolled for use at high operating temperature, 27 J impact strength at -40°C
- P...NL2 = Normalized or normalized rolled for use at high operating temperature, 27 J impact strength at -50°C
- + N = Normalized or normalized rolled



3.8 Weathering steel plate (*CorTen*):

Material number	Description according EN 10025		Description according SEW 087 (expired)
1.8958	S235J0W	≡ CorTen A	-
1.8961	S235J2W	≡ CorTen A	WTSt 37-3
1.8962		≡ CorTen A	9CrNiCuP324
1.8945	S355J0WP	≡ CorTen B	-
1.8946	S355J2WP	≡ CorTen B	-
1.8959	S355J0W	≡ CorTen B	-
1.8963	S355J2G1W	≡ CorTen B	WTSt 52-3
1.8965	S355J2W	≡ CorTen B	WTSt 52-3
1.8967	S355K2G2W	≡ CorTen B	-

Explanation of abbreviations:

S	=	Structural steel
W	=	Improved atmospheric corrosion resistance
P	=	Greater phosphorus content
J0	=	27 J impact strength at a temperature of 0 °C
J2	=	27 J impact strength at a temperature of -20 °C
K2	=	40 J impact strength at a temperature of -20 °C
G1	=	Rimming steel (FU)
G2	=	Rimming steel not permitted (FN)
+ N	=	Normalized or normalized rolled