

Werkstoffe
Material grades
Aciers fins et spéciaux



DIE BESSERE VERBINDUNG • THE BETTER CONNECTION • LA MEILLEURE LIAISON

BAUSTÄHLE/STRUCTURAL AND CONSTRUCTIONAL STEELS/ACIERS DE CONSTRUCTION

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents				European Nomenclature
		AISI	UNS	BS	NF	Sweden	US	
St 37-2	1.0037			40 B	E 24-2	13 11-00		S235JR
RS1 37-2	1.0038					13 12-00		S235JRG2
St 37-3 U	1.0114			40 C	E 24-3			S235J0
St 37-3 N	1.0116			40 D	E 24-4			S235J2G3
St 44-2	1.0044			43 B	E 28-2	14 12-00		S275JR
St 44-3 U	1.0143			43 C	E 28-3			S275J0
St 44-3 N	1.0144			43 D	E 28-4	14 14-00		S275J2G3
St 52-3 U	1.0553			50 C	E 36-3	21 32	A 572 Gr. 50	S 355J0
St 52-3 N	1.0570			50 D	E 36-4	21 33		S355J2G3
						21 34		SM 490 C
						21 74		SM 490 YA
								SM 490 YB
E 295	1.0050				A 50-2	15 50		SS 540

FEINKORNBAUSTÄHLE/FINE GRAINED STRUCTURAL STEEL/ACIERS DE CONSTRUCTION A GRAIN FIN

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents				European Nomenclature
		AISI	UNS	BS	NF	Sweden	US	
STE 285	1.0486			224-410 ELT	A42CP/CP/FP		A 694-F42	P 285 NH (1.0477)
WSTE 285	1.0487		K3009	224-430 ELT			SA/A 350-LF1	P 285 QH (1.0478)
TSTE 285	1.0488							
STE 355	1.0562			223-490 ELT	A48AP/CP/FP/FPR		A 694-F46	P 355 NH (1.0565)
WSTE 355	1.0565			223-510 ELT	A52AP/CP/FP/FPR		A 694-F48	P 355 QH (1.0571)
TSTE 355	1.0566			223-490 ELT	BF48/N/F		A 694-F50	
				224-510 ELT			A 694-F52	
				224-460 ELT			A 350-LF2-C12	
				225-490 ELT			A 350 LF2-C11	
			K03011				SA 350 LF2	
							A 765 Gr.II	
STE 420	1.8902					21 43	A 694-F56	P 420 NH (1.8932)
WSTE 420	1.8932						A 694-F60	P 420 QH (1.8936)
TSTE 420	1.8912							
STE 460	1.8905					21 43	A 694-F65	
WSTE 460	1.8935							
TSTE 460	1.8915							
WSTE 500	1.8937							
							A 707 L3-C11	
							A 707 L3-C12	
							A 707 L3-C13	

Weitere Werkstoffe auf Anfrage lieferbar. • Other material grades available upon request. • D'autres nuances sont disponibles sur demande.

WARMFESTE UNLEGIERTE STÄHLE/HIGH TEMPERATURE STEELS/ ACIERS RESISTANTS A LA CHALEUR

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents				JIS	European Nomenclature
		AISI	UNS	BS	NF	Sweden	US		
C 22.3	1.0427				BF 42		A 369 FPB		P 245 GH (1.0352)
C 22.8	1.0460								
17 Mn 4	1.0481			224-460 B	A 48 CP A 48 AP		A 516 Gr. 70 A 515 Gr. 70 A 414 Gr. F A 414 Gr. G	SG 365 SGV 410 SGV 450 SGV 480	
20 Mn 5 V	1.1133	1022		120 M 19	20 M 5	21 32	SA/A105	SMnC 420	P 280 GH (1.0426) P 305 GH (1.0436)
19 Mn 5	1.0482	1518							
C 21	1.0432								
15 Mo 3	1.5415			243-430	15 D 3 25 D 3	29 12	A 204 Gr. A SA/A 182-F1 SA/A 336-F1		16 Mo 3 (1.5415)
14 MoV 6 3	1.7715			640-440	18 MND 5				14 MoV 6 3 (1.7715)
				K12122	BF 15 CD 2.05 15 CD 2.05		SA/A 182-F2		
13 CrMo 4 4	1.7335			K11564 K11564 620-470	620-440 620-540 620-470	22 16	SA/A 182-F12-C12 SA/A 336-F12	SFVA F12	13 CrMo 4 5 (1.7335)
				K11572 K11572 K11572 K11572			SA/A 182-F11-C12 SA/A 336-F11-C12 SA/A 182-F11-C13 SA/A 336-F11-C13	SFVA F22 A SFVA F22 B SCMV 4 SCPH 32 CF	
12 CrMo 9 10	1.7380			K21590	622-490	22 18	SA/A 182-F-22-C11		11 CrMo 9 10 (1.7383)
10 CrMo 9 10	1.7375			K21590 K21590 K21590	622-560		SA/A 336-F22-C11 SA/A 182-F22-C13 SA/A 336-F22-C13		
17 CrMoV 10	1.7766								
21 CrMoV 5 7 V	1.7709								
				271-560					
12 CrMo 19 5 G	1.7362			K42544	625-520		SA/A 182-F5	SFVA F2	
12 CrMo 19 5 V	1.7362			K42544	625-590		SA/A 336-F5	SFVA F5A	
20 MnMoNi 4 5	1.6311			K12042			SA/A 508 Gr3-C11		18 MnMoNi 5 5 (1.6308)
20 MnMoNi 5 5	1.6310			K12042 K31545 K31545			SA/A 508 Gr3-C12 SA/A 182-F21 SA/A 336-F21-C13	SFVQ 2A SFVQ 2B	
15 MnNi 6 3	1.6210								
13 MnNi 6 3	1.6217								
15 NiCuMoNb 5	1.6368								
15 NiCuMoNb 5 S1							A 707 L5-C13 SA/A 508 Gr.2-C11		
				K12766					

Weitere Werkstoffe auf Anfrage lieferbar. • Other material grades available upon request. • D'autres nuances sont disponibles sur demande.

WARMFESTE MARTENSITISCHE STÄHLE/HIGH TEMPERATURE MARTENSITIC STEELS/ ACIERS MARTENSITIQUES RESISTANTS A LA CHALEUR

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
X 10 CrMoVNb 9 1	1.4903							SA/A 182-F91 SA/A 336-F91		X 10 CrMoVNb 9 1 (1.4903)
X 11 CrMoVWNb 9 11	1.4905									
X 20 CrMoV 12 1	1.4922									X 20 CrMoV 11 1 (1.4922)
X 22 CrMoV 12 1	1.4923									
X 12 CrMo 9 1	1.7386		K90941 K81590					SA/A 182-F9 SA/A 336-F9		

EINSATZSTÄHLE/CASE HARDENING STEELS/ACIERS DE CEMENTATION

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
20 MnCr 5	1.7147	5120			20 MC 5			SMnC 420 H		20 MnCr 5 (1.7147)
15 CrNi 6	1.5919	3115			15 NC 6					17 CrNi 6 6 (1.5918)
17 CrNiMo 6	1.6587				18 NCD 6					18 CrNiMo 7 6 (1.6587)

UNLEGIERTE VERGÜTUNGSSTÄHLE/UNALLOYED HEAT TREATABLE STEELS/ ACIERS NON-ALLIES D'AMELIORATION

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
C 25	1.1558			070M26	C 25					C 25 (1.1158)
	1.0406									
C 45	1.1191	1045		080M46	C 45	16 50		S 45 C		C 45 (1.1191)
C 60	1.1221	1060		070M60	C 60	16 65		S 58C		C 60 (1.1221)
	1.0601	1064		060A62		16 78				

LEGIERTE VERGÜTUNGSSTÄHLE/ALLOYED HEAT TREATABLE STEELS/ACIERS D'AMELIORATION

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
25 CrMo 4	1.7218	4130		708A25	25 CrMo 4	22 25	A 668 Gr.J	SCM 420		25 CrMo 4 (1.7218)
					25 CD 4			SCCrM 1		
34 CrMo 4	1.7220	4135		708A37	34 CrMo	22 34		SCM 435 H		34 CrMo 4 (1.7220)
		4137			34 CD 4			SCM 432		
								SCCrM 3		
42 CrMo 4	1.7225	4140		708M40	42 CrMo 4	22 44	SA 372 Gr.J-Cl.70	SCM 440 H		42 CrMo 4 (1.7225)
		4142		708A42	42 CD 4			SCM 440		
				709M40				SNB 7		
50 CrV 4	1.8159	6145		735A51	50CrV 4	22 30		SUP 10		51 CrV 4 (1.8159)
		6150		735H51						
				735M50						
30 CrNiMo 8	1.6580			823M30	30 CrNiMo 8			SNCM 431		30 CrNiMo 8 (1.6580)
					30 CND 8					
34 CrNiMo 6	1.6582	4337		817M40	34 CrNiMo 6	25 41		SNCM 447		34 CrNiMo 6 (1.6582)
		4340		816M40	34 CND 6					
100 Cr 6	1.3505									
100 CrMo 7 3	1.3536									

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NICKEL-LEGIERTE KALTZÄHE STÄHLE/NI-ALLOYED TOUGH AT SUBZERO STEELS/ ACIERS TENACES A FROID ALLIES AU NICKEL

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
10 Ni 14	1.5637		K32025	503-490	BF 12 N 14		SA/A 350-LF3	SL 3 N 26 45	12Ni 14 (1.5637)	
X 8 Ni 9	1.5662		K81340	509-690			SA/A 522 TYPE 1		X 8 Ni 9 (1.5662)	

MARTENSITISCHE NICHTROSTENDE STÄHLE/MARTENSITIC STAINLESS STEELS/ ACIERS MARTENSITIQUES INOXYDABLES

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
X 17 CrNi 16 2	1.4057			431 S 29	Z 15 CN 16 02	23 21		SUS 431		
X 20 Cr 13	1.4021			420 S 29	Z 20 C 13	23 03		SUS 420 J 1		
X 3 CrNi 13 4 V1	1.4313		S41500	425 C 11	Z 4 CND 13.4 M	23 84	A 182-F6NM	SCS 5		
X 5 CrNi 13 4 V2	1.4313		S41500	425 C 12	Z 6 CN 13-4		A 743-CA-6NM	SCS 6		
X 5 CrNi 13 4 V3					Z 8 CD 17-01					
X 12 Cr 13	1.4006			410 S 21 410 C 21 ANC 1A	Z 10 C 13	23 02	CA 6-NM	SUS 410		
X 46 Cr 13	1.4034									

FERRITISCHE NICHTROSTENDE STÄHLE/FERRITIC STAINLESS STEELS/ACIERS FERRITIQUES INOXYDABLES

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
X 6 CrAl 13 G	1.4002			405 S 17	Z 8 CA 13			SUS 405		

NICHTROSTENDE AUSTENITISCHE STÄHLE/AUSTENITIC STAINLESS STEELS/ ACIERS AUSTENITIQUES INOXYDABLES

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents			Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF					
X 5 CrNi 18 10	1.4301		S30403	304 S11	BFZ 3 CN 19-09	23 32	SA/A 182-F304L	SUS 304		
X 2 CrNi 19 11	1.4306		S30403	304 S31	Z 2 CN 18-10	23 33	SA/A 336-F304L	SUS 304 L		
			S30400		Z 3 CN 19-11	23 52	SA/A 182-F304	SCS 19		
			S30400		BFZ 6 CN 18-09		SA/A 336-F304			
			S30400		Z 6 CN 19-09		A 403-WP304 / S			
			S30409	304 S51			SA/A 182-F304H			
			S30409				SA/A 336-F304H			
			S30400				A 403-CR304H			
							A 403-WPHS			
X 5 CrNiMo 17 12 2	1.4401		S31609	316 S51			SA/A 182-F316H			
			S31609				SA/A 336-F316H			
			S31609				A 403-CR316H			
			S31609				A 430-WP316HS			
			S31600	316 S31	BFZ 6 CND 17-11-02	23 47	SA/A 182-F316	SUS 316		
X 2 CrNiMo 17 12 2	1.4404		S31600	316 S13	Z 2 CND 17-11		SA/A 336-F316			
			S31600	316 S17			A 403-CR316			
			S31600	316 S19			A 403-WP316S			
				316 S33						
X 2 CrNiMo 17 12 2	1.4404		S31603	316 S11	BZF 3 CND 17-11-02	23 48	SA/A 182-F316L	SUS 316L		

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NICHTROSTENDE AUSTENITISCHE STÄHLE/AUSTENITIC STAINLESS STEELS/ ACIERS AUSTENITIQUES INOXYDABLES

DIN Nomenclature	Nr.	ASME/ASTM		Äquivalente/Equivalents		Sweden	US	JIS	European Nomenclature
		AISI	UNS	BS	NF				
			S31603	316 S13	Z 2 CND 17-12		SA/A 336-F316L		
			S31603	316 S14			A 403-CR316L		
			S31603	316 C31			A 430-WP316LS		
				316 S42					
				316 C12					
X 2 CrNiMo 18 14 3	1.4435		S31603	316 S13	Z 2 CND 18-13	23 53			
				316 S11	Z 3 CND 17-12-03				
				316 S14					
				316 S31					
X 3 CrNiMo 17 13 3	1.4436		S31600	316 S33	Z 6 CND 18-12-03	23 43			
				316 S19	Z 7 CND 18-12-03				
				316 S31					
X 2 CrNiMoN 17 13 3	1.4439								
X 1 NiCrMoCu 25 20 5	1.4539		N08904	904 S13	Z 2 NCDU 25-20	25 62			
X 6 CrNiTi 18 10	1.4541		S32100	321 S31	BFZ 6 CNT 18-10	23 37	SA/A 182-F321	SUS 321	
			S32100	321 S51-490	Z 6 CNT 18-10		SA/A 336-F321		
			S32100	321 S51-510			A 403-CR321		
			S32100				A 430-FP321		
			S32109				SA/A 182-F321H		
			S32109				A 403-WP321S		
			S32109				A 403-WP321HS		
			S32109				A 403-WP321S		
			S23109				A 403-WP321HS		
			S32109				A 403-CR321H		
			S32109				A 430-FP321HS		
X 6 CrNiNb 18 10	1.4550S								
X 6 CrNiNb 18 10	1.4550		S34700	347 S31	Z 6 CNNb 18-10	23 38	SA/A 182-F347	SUS 347	
			S34700	347 S51			SA/A 336-F347		
			S34700	347 S20			A 403-WP347S		
			S34700				A 403-WP347HS		
			S34700				A 403-CR347		
			S34700				A 403-CR347H		
			S34700				A 403-FP347		
			S34700				A 403-FP347H		
			S34709				SA/A 182-F347H		
			S34709				SA/A 336-F347H		
X 6 CrNiMoTi 17 12 2	1.4571		S31635	320 S18	BFZ 6 CNDT 17 12	23 50	SA 182-F316Ti	SUS 316 Ti	
				320 S31	Z 6 CNDT 17-12				
X 6 CrNiMoNb 17 12 2	1.4580			318 S17	BFZ CNDNB 18-12		(316 Cb)		
X 12 CrNi 18 9	1.4878			321 S51		(2337)	321	SUS 321	
			S31000				SA/A 182-F310		
			S31000				SA/A 336-F310		
X 1 CrNiMoCuN 20 18 7	1.4547		S31254				SA/A 182-F44		
X 6 CrNi 18 11	1.4948		S31700				SA/A 182-F317		
			S31703				SA/A 182-F317L		
X 1 CrNiMoCuN 25 20 7	1.4529								
X 2 NiCrMoCuN 25 20	1.4536								
			N083670						

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DUPLEX-STÄHLE/DUPLEX STEELS/ACIERS DUPLEX SUPERDUPLEX-STÄHLE/SUPERDUPLEX STEELS/ACIERS SUPERDUPLEX

DIN		ASME/ASTM		Äquivalente/Equivalents				European	
Nomenclature	Nr.	AISI	UNS	BS	NF	Sweden	US	JIS	Nomenclature
X 2 CrNiMo 22 5 3	1.4462		S31803	318 S13	Z 3 CND 22 05 AZ	23 77	SA/A 182-F51	SUS 329J3L	
			S32205				SA/A 182-F60		
X 2 CrNiMoCuWN 25 7 5	1.4501		S32760				SA/A 182-F55		

HITZEBESTÄNDIGE LEGIERUNGEN/HEAT-RESISTING STEELS/ALLIAGES REFRACTAIRES

DIN		ASME/ASTM		Äquivalente/Equivalents				European	
Nomenclature	Nr.	AISI	UNS	BS	NF	Sweden	US	JIS	Nomenclature
X 3 CrNiMoN 17 13	1.4910								
X 10 CrAl 7	1.4713								
				NA 14					
X 10 NiCrAlTi 32 20	1.4876		N08800	NA 15	Z 10 NC 32-21			NCF 800	Alloy 800
X 10 NiCrAlTi 32 20H	1.4876		N08810	NA 15H					Alloy 800 H
X 10 NiCrAlTi 32 21	1.4876		N08810						Alloy 800 HT
			N08811						
NiCr 15 Fe	2.4816		N06600	HR 208					Incolloy 600
			N06040						
NiCr 21 Mo	2.4858		N08825	NA 16				NCF 825	Alloy 825
NiCr 21 Mo 14 W	2.4602								C-22
NiCr 22 Mo 9 Nb	2.4856		N06625					NCF 625	Inconel 625
NiCu 30 Fe	2.4360	B564	N04400						Monel 400
NiMo 28	2.4617		N10665		NiMo 28				Alloy B2
NiMo 16 Cr 16 Ti	2.4610		N06455						Hastelloy C-4
NiMo 16 Cr 15 W	2.4819		N10276		NC 17 D				Hastelloy C-276
NiCr 22 Mo 9 Nb	2.4856		N26625	NA 21					

TITAN LEGIERUNGEN/TITANIUM ALLOYS/ALLIAGES DE TITANE

DIN		ASME/ASTM		Äquivalente/Equivalents				European	
Nomenclature	Nr.	AISI	UNS	BS	NF	Sweden	US	JIS	Nomenclature
Ti 2	3.7035.1		R50400				SB/B 381 F2		Grade 2
Ti Al 6 V 4	3.7165.1						SB/B 381 F5		Grade 5
TiNi 0,8 Mo 0,3	3.7105.1		R53400				SB/B 381 F12		Grade 12

ALUMINIUM LEGIERUNGEN/ALUMINIUM ALLOYS/ALLIAGES D'ALUMINIUM

DIN		ASME/ASTM		Äquivalente/Equivalents				European	
Nomenclature	Nr.	AISI	UNS	BS	NF	Sweden	US	JIS	Nomenclature
AlMg 3	3.3535				A-G3M (ex)				EN-AW 5754
AlMg 4,5 Mn 0,7	3.3547			N 8 (ex)	A-G4,5MC (ex)		SB/B 247	A2x7 (alt)	EN-AW 5083
							5083-H112		
A Mg 1 SiCu							SB/B 247		
							6061-T6		
AlSi 1 MgMn	3.2315				A-SGM07 (ex)				EN-AW 6082

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