

GRADES	Mechanical properties of stainless steel flat products												
	DESIGNATIONS (▼)		Product Form (1)	Thickness max [mm]	Heat Treatment (5) (13)	Hardness		Proof strength R _{p0.2} [N/mm ²] min. (14) (15) (transverse)	Tensile strength R _m [N/mm ²]	Elongation after fracture		Impact energy (ISO-V)	
	EN [N°]	AISI/ASTM				HRB max	HB or HV max			A _{80mm} [%] min (2) th<3mm (tr. and long.)	A [%] min (3) th≥3mm (tr. and long.)	KV [J] min th>10mm (longitudinal)	(transverse)
AUSTENITIC	1.4372 ⁽¹⁾	201	C	6	AT	90 ⁽³⁰⁾	217 ⁽⁴²⁾	350	from 750 to 950	45	45	90	60
			H	12				330					
			P	75				330					
	1.4373 ⁽¹⁾	202	C	6	AT	90 ⁽³⁰⁾	241 ⁽⁴²⁾	340	from 680 to 880	45	45	90	60
			H	12				320					
			P	75				320					
	1.4310 ⁽¹⁾	301	C	6	AT	85 ⁽¹⁹⁾	217 ⁽⁴²⁾	250	from 600 to 950	40	40		
		301 L ⁽⁵²⁾			AT	100	241	220 *	min 550	45 *			
	1.4318 ⁽¹⁾	301 LN	C	6	AT	100 ⁽⁴²⁾	241 ⁽⁴²⁾	350	from 650 to 850	35	40	90	60
			H	12				330					
			P	75				330					
		302 ⁽³⁵⁾			AT	85 ⁽³⁰⁾	201 ⁽⁴²⁾	276 * ⁽³⁰⁾		50 * ⁽³⁰⁾		108 ⁽³¹⁾	
						80 ⁽³¹⁾		241 * ⁽³¹⁾	621	60 * ⁽³¹⁾			
	1.4305 ⁽¹⁾	303	P	75	AT			190	from 500 to 700	35	35		
	1.4301 ⁽¹⁾	304	C	6	AT	80 ⁽¹⁹⁾	149 ⁽²¹⁾	230	from 540 to 750	45 ⁽¹⁶⁾	45 ⁽¹⁶⁾	90	60
H			12	210									
P			75	210									
1.4311 ⁽¹⁾	304 LN	C	6	AT	92 ⁽⁴²⁾	201 ⁽⁴²⁾	290	from 550 to 750	40	40	90	60	
		H	12				270						
		P	75				270						
1.4948 ⁽¹⁰⁾	304 H	C	6	AT	92 ⁽⁴²⁾	201 ⁽⁴²⁾	230	from 530 to 740	45 ⁽¹⁶⁾	45 ⁽¹⁶⁾	100	60	
		H	12				210						
		P	75				190						
1.4307 ⁽¹⁾	304 L	C	6	AT	79 ⁽¹⁹⁾	143 ⁽²¹⁾	220	from 520 to 670	45	45	90	60	
		H	12				200						
		P	75				200						
1.4306 ⁽¹⁾	304 L	C	6	AT	79 ⁽¹⁹⁾	143 ⁽²¹⁾	220	from 520 to 670	45	45	90	60	
		H	12				200						
		P	75				200						
	304 N ⁽³⁵⁾			AT	85 ⁽²⁰⁾	201 ⁽⁴²⁾	331 *	621	50 *		70 ⁽⁴⁵⁾		
1.4303 ⁽¹⁾	305	C	6	AT	80 ⁽³⁰⁾	183 ⁽⁴²⁾	220	from 530 to 680	45	45			
1.4828 ⁽¹⁰⁾		⁽³²⁾	75	AT		223 ⁽¹⁷⁾	230 *	from 550 to 750	28 ⁽²⁶⁾	30	30 ⁽⁴⁶⁾		
1.4833 ⁽¹⁰⁾	309 S	⁽³²⁾	75	AT	85 ⁽³⁰⁾	192 ⁽¹⁷⁾	210 *	from 500 to 700	33 ⁽²⁶⁾	35	30 ⁽⁴⁶⁾		
1.4845 ⁽¹⁰⁾	310 S	⁽³²⁾	75	AT	95 ⁽⁴²⁾	192 ⁽¹⁷⁾	210 *	from 500 to 700	33 ⁽²⁶⁾	35	30 ⁽⁴⁶⁾		
1.4841 ⁽¹⁸⁾	314 ⁽³⁵⁾			AT	85 ⁽²⁰⁾	180 ⁽²¹⁾	345 *	689	40 *		30 ⁽⁴⁶⁾		

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	EN [N°]	AISI/ASTM				HRB max	HB or HV max			A _{80mm} [%] min (2) th<3mm (tr. and long.)	A [%] min (3) th≥3mm (tr. and long.)	KV [J] min th>10mm (longitudinal)	(transverse)	
AUSTENITIC	1.4401 ⁽¹⁾	316	C	6	AT	79 ⁽¹⁹⁾	149 ⁽²¹⁾	240	from 530 to 680	40	40	90	60	
			H	12		79 ⁽²⁰⁾		220						
			P	75		220		from 520 to 670						
	1.4436 ⁽¹⁾	316	C	6	AT	79 ⁽¹⁹⁾	149 ⁽²¹⁾	240	from 550 to 700	40	40	90	60	
			H	12		79 ⁽²⁰⁾		220						
			P	75		220		from 530 to 730						
		316 N ⁽⁸⁵⁾			AT	85 ⁽²⁰⁾	217 ⁽⁴²⁾	331 *	621	48 *				
		316 H ⁽⁶²⁾			AT	95	217	205 *	min 515	40 *				
	1.4404 ⁽¹⁾	316 L	C	6	AT	79 ⁽¹⁹⁾	146 ⁽²¹⁾	240	from 530 to 680	40	40	90	60	
			H	12		79 ⁽²⁰⁾		220						
			P	75		220		from 520 to 670						
	1.4435 ⁽¹⁾	316 L	C	6	AT	79 ⁽¹⁹⁾	146 ⁽²¹⁾	240	from 550 to 700	40	40	90	60	
H			12	79 ⁽²⁰⁾		220								
P			75	220		from 520 to 670								
1.4432 ⁽¹⁾	316 L	C	6	AT	79 ⁽¹⁹⁾	146 ⁽²¹⁾	240	from 550 to 700	40	40	90	60		
		H	12		79 ⁽²⁰⁾		220							
		P	75		220		from 520 to 670							
1.4406 ⁽¹⁾	316 LN	C	6	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	300	from 580 to 780	40	40	90	60		
		H	12				280							
		P	75				280							
1.4429 ⁽¹⁾	316 LN	C	6	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	300	from 580 to 780	35	35	90	60		
		H	12				280							
		P	75				280							
1.4571 ⁽¹⁾	316 Ti	C	6	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	240	from 540 to 690	40	40	90	60		
		H	12				220							
		P	75				220						from 520 to 670	
1.4580 ⁽¹⁾	316 Cb	P	75	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	220	from 520 to 720	40	40	90	60		
	317 ⁽³⁵⁾			AT	85 ⁽³⁰⁾	160 ⁽²¹⁾	276 *	from 586 to 621	from 45 to 50 *		149			
1.4438 ⁽¹⁾	317 L	C	6	AT	85 ⁽²⁰⁾	217 ⁽⁴²⁾	240	from 550 to 700	35	35	90	60		
		H	12				220							
		P	75				220						from 520 to 720	
1.4434 ⁽¹⁾	317 LN	C	6	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	290	from 550 to 770	35	35	90	60		
		H	12				270							
		P	75				270						from 540 to 740	
1.4439 ⁽¹⁾	317 LMN	C	6	AT	96 ⁽⁴²⁾	223 ⁽⁴²⁾	290	from 580 to 780	35	35	90	60		
		H	12				270							
		P	75				270							
1.4541 ⁽¹⁾	321	C	6	AT	80 ⁽¹⁹⁾	160 ⁽²¹⁾	220	from 520 to 720	40	40	90	60		
		H	12		80 ⁽²⁰⁾		200							
		P	75		200		from 500 to 700							

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	EN [N°]	AISI/ASTM				HRB max	HB or HV max			A _{80mm} [%] min (2) th<3mm (tr. and long.)	A [%] min (3) th≥3mm (tr. and long.)	KV [J] min th>10mm (longitudinal)	(transverse)
AUSTENITIC	1.4878 ⁽¹¹⁾	321 H	(32)	75	AT	95 ⁽⁴²⁾	215 ⁽¹⁷⁾	190 *	from 500 to 720	40 ⁽²⁶⁾	40	45 ⁽⁴⁶⁾	
	1.4550 ⁽¹⁾	347	C	6	AT	85 ⁽¹⁹⁾		220	from 520 to 720	40	40	90	60
			H	12		85 ⁽²⁰⁾		200					
			P	75			160 ⁽²¹⁾	200	from 500 to 700				
		347 H ⁽⁶²⁾			AT	92	201	205 *	min 515	40 *			
	1.4335 ⁽¹⁾		P	75	AT			200	from 470 to 670	40	40	90	60
	1.4466 ⁽¹⁾	310 MoLN	P	75	AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	250	from 540 to 740	40	40	90	60
	1.4361 ⁽¹⁾		P	75	AT			220	from 530 to 730	40	40	90	60
	1.4563 ⁽¹⁾		P	75	AT	from 70 to 90 (48)		220	from 500 to 700	40	40	90	60
	1.4539 ⁽¹⁾	904 L	C	6	AT	90 ⁽⁴²⁾		240	from 530 to 730	35	35	90	60
			H	12				220					
			P	75				220	from 520 to 720	35	35		
	1.4547 ⁽¹⁾		C	6	AT	96 ⁽⁴²⁾	223 ⁽⁴²⁾	320	from 650 to 850	35	35	90	60
			H	12				300					
			P	75				300					
1.4529 ⁽¹⁾		P	75	AT			300	from 650 to 850	40	40	90	60	
1.4864 ⁽¹⁸⁾	330 ⁽³⁵⁾			AT	80 ⁽²¹⁾		262 *	from 552 to 621	from 40 to 45 *		30 ⁽⁴⁷⁾		
1.4835 ⁽¹⁾		(32)	75	AT	95 ⁽⁴²⁾	210 ⁽¹⁷⁾	310 *	from 650 to 850	37 ⁽²⁶⁾	40			
1.4876 ⁽¹⁾		(32)		AT	86 ⁽⁴⁹⁾ (50)		205 * (49)	520 ⁽⁴⁹⁾	28 ⁽²⁶⁾	30	30 ⁽⁴⁷⁾		
1.4877 ⁽¹⁸⁾	(22)			AT	95		185 *	min 500	30 *				
1.4818 ⁽¹⁾		(32)		AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	290 * (42)	min 600 ⁽⁴²⁾	30 ⁽²⁶⁾	40			
1.4854 ⁽¹⁾		(32)		AT	95 ⁽⁴²⁾	217 ⁽⁴²⁾	270 * (42)	min 650 ⁽⁴²⁾	40 ⁽²⁶⁾	40			
DUPLEX	1.4462 ⁽¹⁾		C	6	AT	31 ⁽³³⁾	293 ⁽⁴²⁾	480 ⁽²³⁾ (44)	from 660 to 950	20	20	90	60
			H	12				460 ⁽²³⁾ (44)		25	25		
			P	75				460 ⁽²³⁾ (44)	from 640 to 840	25	25		
	1.4362 ⁽¹⁾		C	6	AT	32 ⁽³³⁾	290 ⁽⁴²⁾	420 ⁽²³⁾ (44)	from 600 to 850	20	20	90	60
			H	12				400 ⁽²³⁾ (44)		25	25		
			P	75				400 ⁽²³⁾ (44)	from 630 to 800	25	25		
	1.4410 ⁽¹⁾		C	6	AT	32 ⁽³³⁾	310 ⁽⁴²⁾	550 ⁽²³⁾ (44)	from 750 to 1000	15	15	90	60
			H	12				530 ⁽²³⁾ (44)		20	20		
			P	75				530 ⁽²³⁾ (44)	from 730 to 930	20	20		
	1.4507 ⁽¹⁾		C	6	AT	32 ⁽³³⁾	302 ⁽⁴²⁾	510 ⁽²³⁾ (44)	from 690 to 940	17	17	90	60
			H	12				490 ⁽²³⁾ (44)		25	25		
			P	75				490 ⁽²³⁾ (44)	from 690 to 890	25	25		
1.4501 ⁽¹⁾		P	75	AT		270 ⁽⁴²⁾	530 ⁽²³⁾ (44)	from 730 to 930	25	25	90	60	

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	EN [N°]	AISI/ASTM				HRB max	HB or HV max			R _m	A _{90mm} [%] min (2) th<3mm (tr. and long.)	A [%] min (3) th≥3mm (tr. and long.)	KV [J] min th>10mm (longitudinal)	KV [J] min th>10mm (transverse)
FERRITIC	1.4002 ⁽¹⁾	405	C	6	A	75 ⁽²⁰⁾	150 ⁽²¹⁾	250 *	from 400 to 600	17				
			H	12				230 *						
			P	25 ⁽⁴⁾				230 *						
	1.4003 ⁽¹⁾			C	6	A	89 ⁽⁴²⁾	183 ⁽⁴²⁾	320 *	from 450 to 650	20	100 ⁽³⁷⁾		
				H	12				280 *					
				P	25 ⁽⁴⁾				280 *					
	1.4512 ⁽¹⁾	409		C	6	A	75 ⁽³⁰⁾		220 *	from 380 to 560	25			
				H	12									
	1.4000 ⁽¹⁾	410 S		C	6	A	89 ⁽⁴²⁾	183 ⁽⁴²⁾	250 *	from 400 to 600	19			
H				12	230 *									
P				25 ⁽⁴⁾	230 *									
1.4016 ⁽¹⁾	429 ⁽³⁵⁾	430	C	6	A	80	163	276 *	483	30 *				
			H	12				280 *						
			P	25 ⁽⁴⁾				260 *						
FERRITIC	1.4520 ⁽¹⁾		C	6	A			260 *	from 430 to 630	20				
			H	12				260 *						
			P	25 ⁽⁴⁾				160 ⁽²¹⁾						
	1.4511 ⁽¹⁾			C	6	A			200 *	from 380 to 530	24			
				H	12				240 *					
	1.4017 ⁽¹⁾			C	6	A			500 *	from 650 to 750	12			
				H	12				280 *					
	1.4113 ⁽¹⁾	434		C	6	A	83 ⁽³⁰⁾		280 *	from 450 to 630	18			
				H	12									
1.4513 ⁽¹⁾			C	6	A			220 *	from 400 to 550	23				
			H	12										
1.4510 ⁽¹⁾	439		C	6	A	89 ⁽⁴²⁾	183 ⁽⁴²⁾	240 *	from 420 to 600	23				
			H	12										
			P	25 ⁽⁴⁾										
1.4516 ⁽¹⁾			C	6	A			320 *	from 450 to 650	23	150 ⁽³⁴⁾			
			H	12				280 *						
			P	25 ⁽⁴⁾				280 *						
1.4521 ⁽¹⁾	444		C	6	A	96 ⁽⁴²⁾	217 ⁽⁴²⁾	320 *	from 420 to 640	20				
			H	12				300 *						
			P	12				300 *						
1.4526 ⁽¹⁾	436		C	6	A			300 *	from 480 to 560	25				
			H	12										
1.4509 ⁽¹⁾			C	6	A			250 *	from 430 to 630	18				
			H	12										
1.4749 ⁽¹⁾	446		C	6	A	83 ⁽³⁰⁾	84 ⁽³¹⁾	345 + ⁽³⁰⁾	from 552 to 586 (27)	13 ⁽²⁶⁾	15 ⁽²⁸⁾	15 ⁽²⁹⁾		
			H	12				379 + ⁽³¹⁾						
1.4713 ⁽¹⁾			(32)	12	A			220 *	from 420 to 620	20 ⁽²⁸⁾	15 ⁽²⁹⁾			
			(32)	12										
1.4724 ⁽¹⁾			(32)	12	A			192 ⁽¹⁷⁾	from 450 to 650	13 ⁽²⁶⁾	15 ⁽²⁸⁾	15 ⁽²⁹⁾		
			(32)	12										
1.4762 ⁽¹⁾			(32)		A			min 490 ⁽⁴⁷⁾	from 450 to 650	13 ⁽²⁶⁾	15 ⁽²⁸⁾	15 ⁽²⁹⁾		

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	EN [N°]	AISI/ASTM				HRB max	HB or HV max			A _{80mm} [%] min (2) th<3mm (tr. and long.)	A [%] min (3) th≥3mm (tr. and long.)	KV [J] min th>10mm (longitudinal)	(transverse)		
MARTENSITIC	1.4006 ⁽¹⁾	410	C	6	A	90 ⁽⁶⁾	200 ⁽⁶⁾	205 * ⁽⁴¹⁾	max 600	20		upon agreement			
			H	12						QT550	400 *			from 550 to 750	15
			P ⁽⁷⁾	75						QT650	450 *			from 650 to 850	12
	1.4021 ⁽¹⁾	420	C	3	QT	from 44 to 50 (24)	from 440 to 530 (25)								
			C	6	A	95 ⁽⁶⁾	225 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 700	15		upon agreement			
			H	12						QT650	450 *			from 650 to 850	12
	P ⁽⁷⁾	75	QT750	550 *						from 750 to 950	10				
	1.4028 ⁽¹⁾	420	C	3	QT	from 45 to 51 (24)	from 450 to 550 (25)								
			C	6	A	97 ⁽⁶⁾	235 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 740	15		upon agreement			
H			12	QT800						600 *	from 800 to 1000			10	
P ⁽⁷⁾	75														
1.4031 ⁽¹⁾	420	C	3	QT	from 47 to 53 (24)	from 480 to 580 (25)									
		C	6	A	98 ⁽⁶⁾	240 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 760	12		upon agreement				
		H	12												
P ⁽⁷⁾	75														
1.4034 ⁽¹⁾	420	C	6	A	99 ⁽⁶⁾	245 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 780	12		upon agreement				
		H	12												
		P ⁽⁷⁾	75												
1.4116 ⁽¹⁾		C	6	A	100 ⁽⁶⁾	280 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 850	12		upon agreement				
		H	12												
		P ⁽⁷⁾	75												
1.4122 ⁽¹⁾		C	3	QT	from 47 to 53 (24)	from 480 to 580 (25)									
		C	6	A	100 ⁽⁶⁾	280 ⁽⁶⁾	345 * ⁽¹⁹⁾	max 900	12		upon agreement				
		H	12												
P ⁽⁷⁾	75														
1.4313 ⁽¹⁾		P	75	QT780			650 *	from 780 to 980	14		70				
				QT900			800 *	from 900 to 1100	11						
1.4418 ⁽¹⁾		P	75	QT840			680 *	from 840 to 980	14		55				
PH	1.4542 ⁽¹⁾	630	C	6	AT ⁽⁸⁾	35 ⁽³⁸⁾		1000 * ⁽²⁰⁾	≤ 1275	5					
					P1300 ⁽⁹⁾			1150 *	≥ 1300	3					
					P900 ⁽⁹⁾			700 *	≥ 900	6					
			P	50	P1070 ⁽¹⁰⁾			1000 *	from 1070 to 1270	8	10				
					P950 ⁽¹⁰⁾			800 *	from 950 to 1150	10	12				
					P850 ⁽¹⁰⁾			600 *	from 850 to 1050	12	14				
			SR630 ⁽¹¹⁾				≤ 1050								
1.4568 ⁽¹⁾	631	C	6	AT ⁽⁸⁾⁽¹²⁾	92 ⁽⁴³⁾		max 380 * ⁽⁴³⁾	≤ 1030	19						
				P1450 ⁽¹¹⁾			1310 *	≥ 1450	2						

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NOTES:

- (I) Mechanical properties according to UNI EN 10088-2, January 1997
- (II) Mechanical properties according to EN 10095, March 1999
- (III) Mechanical properties according to EN 10028-7, January 2000
- (*) The notes in the column heading do not apply
- (▼) The designations of the materials in accordance with AISI/ASTM are not dependent on the type of steel product
- (1) C= cold-rolled strip; H= hot-rolled strip; P= hot-rolled plate
- (2) The values apply for test pieces with a gauge length of 80 mm and a width of 20 mm; test pieces with a gauge length of 50 mm and a width of 12.5 mm may also be used; Solely for the austenitic types mentioned in UNI EN 10088-2, January 1997, and EN 10028-7, January 2000, figures refer to the transverse direction only
- (3) The values apply for test pieces with a gauge length of $5,65 \cdot \sqrt{S_0}$. Solely for the austenitic types mentioned in UNI EN 10088-2, January 1997, and EN 10028-7, January 2000, figures refer to the transverse direction only
- (4) For thicknesses exceeding 25mm, mechanical properties may be agreed upon
- (5) A= annealed; QT= quenched and tempered; AT= solution annealed; P= precipitation-hardened; SR= stress-relieved
- (6) The Brinell or Vickers or Rockwell hardness is normally determined for product forms C and H in heat-treatment condition A. The tensile test shall be carried out in referee testing.
- (7) Plates may also be delivered in the annealed condition; in such cases, the mechanical properties are to be agreed at the time of enquiry and order
- (8) Delivery condition
- (9) Condition of application; other precipitation-hardening temperatures may be agreed.
- (10) If the product is ordered in the finally-treated condition
- (11) Delivery condition for further processing; final treatment according to table A.3 of UNI EN 10088-2, January 1997
- (12) For spring-hard rolled condition see EURONORM 151-2
- (13) Solely for the austenitic types mentioned in UNI EN 10088-2, January 1997, the solution treatment may be omitted if the conditions for hot working and subsequent cooling are such that the requirements for the mechanical properties of the product and the resistance to intergranular corrosion as defined in EU 114 are obtained
- (14) If, in the case of strip in rolling widths <300mm, longitudinal test pieces are taken, the minimum values are reduced as follows:
 - proof strength: minus 15 N/mm²
 - elongation for constant gauge length: minus 5%- elongation for proportional gauge length: minus 2%
- (15) For continuously hot-rolled products, 20 N/mm² higher minimum values of $R_{p0,2}$ may be agreed at the time of enquiry and order.
- (16) For stretcher levelled material, the minimum value is 5% lower
- (17) Value for guidance purposes
- (18) Standard EN 10095 contains figures for the mechanical properties of long products only. Reference is therefore made to the equivalent material in the AISI/ASTM column
- (19) Value for Strip format according to AISI manual, December 1974 edition; supplement, March 1979

- (20)** Value for Sheet format according to AISI manual, December 1974 edition; supplement, March 1979
- (21)** Hardness value (HB) for Plate format according to AISI manual, December 1974 edition; supplement, March 1979
- (22)** Properties according to ASTM A 240 / A 240 M-99a with respect to the equivalent UNS S 33228
- (23)** If, in the case of strip in rolling widths <300mm, longitudinal test pieces are taken, minimum proof strength values are reduced by 15 N/mm²
- (24)** HRC hardness
- (25)** HV hardness
- (26)** Elongation after fracture A% for thicknesses $0.5 \leq s < 3$ mm (longitudinal, transverse)
- (27)** According to AISI manual, December 1974 edition; supplement, March 1979
- (28)** Elongation after fracture A% for thicknesses $s \geq 3$ mm (longitudinal)
- (29)** Elongation after fracture A% for thicknesses $s \geq 3$ mm (transverse)
- (30)** Value for Strip/Sheet formats according to AISI manual, December 1974 edition; supplement, March 1979
- (31)** Value for Plate format according to AISI manual, December 1974 edition; supplement, March 1979
- (32)** Product form: flat products (in general)
- (33)** Hardness (HRC) according to ASTM A 240 / A 240 M-99a
- (34)** Impact energy KV at room temperature in accordance with NF A 35-573, May 1990
- (35)** Properties according to AISI manual, December 1974 edition; supplement, March 1979
- (36)** Properties according to ASTM A 176-99
- (37)** Value according to SEW 400, 1997
- (38)** Hardness value (HRC) for Sheet format according to AISI manual, December 1974 edition; supplement, March 1979
- (39)** IZOD impact test [J]
- (40)** Solely for martensitic and PH types, the number after the letters identifies a specific heat treatment as per tables A.2 and A.3 of UNI EN 10088-2, January 1997
- (41)** According to ASTM A 176-99
- (42)** According to ASTM A 240 / A 240 M-99a. In the absence of an equivalent Type, reference is made to the UNS number
- (43)** According to ASTM A 693-93 (Reapproved in 1999)
- (44)** Only note (15) in the column heading applies
- (45)** Impact energy at -196 °C according to NF A 35-573, May 1990 regarding Z 6 CN 19-09 Az
- (46)** Impact energy KU at room temperature in accordance with NF A 35-578, October 1991
- (47)** Value at room temperature in accordance with NF A 35-578, October 1991
- (48)** Value for guidance purposes according to ASTM B 709-98
- (49)** Value according to ASTM B 409-96a
- (50)** Value for Sheet and Strip formats. For Strip format with thickness between 0.13 and 0.25 mm, the maximum HRB value is 88
- (51)** Figures according to UNI EN 10302:03
- (52)** Properties according to ASTM A 240 / A 240 M-99a