



Mechanical properties of stainless steel flat products												
DESIGNATIONS (V)		Product Form (1)	Thickness max	Heat Treatment (5) (13)	Hardness		Proof strength R _{p0.2} [MPa] min. (14) (15) (transverse)	Tensile strength R _m [MPa]	Elongation after fracture A _{gtm} [%] min (2) fr>3mm (tr. and long.) fr>3mm (tr. and long.)		Impact energy (ISO-V) KV J min fr>10mm (longitudinal) (transverse)	
EN [N°]	AISI/ASTM				HRB max	HB or HV max						
AUSTENITIC	1.4303 ^(b)	C	8	AT	80 ^(a)	183 ^(a)	220	from 500 to 650	45	45		
	1.4828 ^(b)	(a)	75	AT		223 ⁽¹⁷⁾	230 *	from 550 to 750	28 ^(a)	30	30 ^(a)	
	1.4833 ^(b)	(a)	75	AT	85 ^(a)	192 ⁽¹⁷⁾	210 *	from 500 to 700	33 ^(a)	35	30 ^(a)	
	1.4845 ^(b)	(a)	75	AT	95 ^(a)	192 ⁽¹⁷⁾	210 *	from 500 to 700	33 ^(a)	35	30 ^(a)	
	1.4841 ^(b)	(a)	75	AT		223 ⁽¹⁷⁾	230 *	from 550 to 750	28 ^(a)	30	30 ^(a)	
	1.4401 ^(b)	C	8	AT	79 ⁽¹⁸⁾	149 ⁽²¹⁾	240	from 530 to 680	40	40		
		H	13.5		79 ⁽¹⁸⁾		220	from 520 to 670	45	45		
		P ⁽⁴⁾	75		79 ⁽¹⁸⁾		220	from 550 to 700	40	40		
	1.4436 ^(b)	C	8	AT	79 ⁽¹⁸⁾	149 ⁽²¹⁾	240	from 530 to 730	40	40		
		H	13.5		79 ⁽¹⁸⁾		220	from 530 to 730	40	40		
		P ⁽⁴⁾	75		85 ^(a)		217 ⁽⁴³⁾	331 *	621	48 *	48 *	
	1.4404 ^(b)	C	8	AT	79 ⁽¹⁸⁾	146 ⁽²¹⁾	240	from 530 to 680	40	40		
		H	13.5		79 ⁽¹⁸⁾		220	from 530 to 680	40	40		
		P ⁽⁴⁾	75		79 ⁽¹⁸⁾		220	from 520 to 670	45	45		
	1.4435 ^(b)	C	8	AT	79 ⁽¹⁸⁾	146 ⁽²¹⁾	240	from 530 to 680	40	40		
		H	13.5		79 ⁽¹⁸⁾		220	from 530 to 680	40	40		
P ⁽⁴⁾		75	79 ⁽¹⁸⁾		220		from 520 to 670	45	45			
1.4432 ^(b)	C	8	AT	79 ⁽¹⁸⁾	146 ⁽²¹⁾	240	from 530 to 680	40	40			
	H	13.5		79 ⁽¹⁸⁾		220	from 530 to 680	40	40			
	P ⁽⁴⁾	75		79 ⁽¹⁸⁾		220	from 520 to 670	45	45			
1.4406 ^(b)	C	8	AT	95 ^(a)	217 ⁽⁴³⁾	280	from 580 to 780	40	40			
	H	13.5		95 ^(a)		300	from 580 to 780	40	40			
	P ⁽⁴⁾	75		95 ^(a)		280	from 580 to 780	40	40			
1.4429 ^(b)	C	8	AT	95 ^(a)	217 ⁽⁴³⁾	300	from 580 to 780	35	35			
	H	13.5		95 ^(a)		280	from 580 to 780	40	40			
	P ⁽⁴⁾	75		95 ^(a)		280	from 580 to 780	40	40			
1.4571 ^(b)	C	8	AT	95 ^(a)	217 ⁽⁴³⁾	240	from 540 to 690	40	40			
	H	13.5		95 ^(a)		220	from 540 to 690	40	40			
	P ⁽⁴⁾	75		95 ^(a)		220	from 520 to 670	40	40			
1.4580 ^(b)	C	8	AT	95 ^(a)	217 ⁽⁴³⁾	220	from 520 to 720	40	40			
	H	13.5		95 ^(a)		220	from 520 to 720	40	40			
	P ⁽⁴⁾	75		95 ^(a)		220	from 520 to 720	40	40			
1.4438 ^(b)	C	8	AT	85 ^(a)	217 ⁽⁴³⁾	276 *	from 588 to 621	35	35	149		
	H	13.5		85 ^(a)		240	from 550 to 700	40	40			
	P ⁽⁴⁾	75		80 ^(a)		220	from 520 to 720	40	40			