



Mechanical properties of stainless steel flat products												
GRADES	DESIGNATIONS (V)		Product Form (1)	Thickness max [mm]	Heat Treatment (5) (13)	Hardness		Proof strength R _{0.2} (MPa) min. (14) (15) (transverse)	Tensile strength R _m [MPa]	Elongation after fracture		Impact energy (ISO-V) KV [J] min. E>10mm (longitudinal) (transverse)
	EN [N°]	AISI/ASTM				HRB max	HB or HV max			A _{50mm} [%] min. (2) (r- and long.)	A [%] min. (3) (r- and long.)	
DUPLEX	1.4482 ⁽¹⁾	2205	C	8	AT	31 ⁽¹⁸⁾	293 ⁽⁶⁾	500 ⁽²¹⁾⁽¹⁴⁾	from 700 to 950	20	100	60
			H	13,5				460 ⁽²¹⁾⁽¹⁴⁾	from 700 to 950	25		
			P	75				460 ⁽²¹⁾⁽¹⁴⁾	from 640 to 840	25		
	1.4382 ⁽¹⁾	2304	C	8	AT	32 ⁽¹⁸⁾	290 ⁽⁶⁾	450 ⁽²¹⁾⁽¹⁴⁾	from 650 to 850	20	100	60
			H	13,5				400 ⁽²¹⁾⁽¹⁴⁾	from 650 to 850	25		
			P	75				400 ⁽²¹⁾⁽¹⁴⁾	from 630 to 800	25		
	1.4655 ⁽¹⁾		C	8	AT			420 ⁽²¹⁾⁽¹⁴⁾	from 800 to 850	20	100	60
			H	13,5				400 ⁽²¹⁾⁽¹⁴⁾	from 800 to 850	25		
			P	75				400 ⁽²¹⁾⁽¹⁴⁾	from 830 to 800	25		
	1.4410 ⁽¹⁾	2507	C	8	AT	32 ⁽¹⁸⁾	310 ⁽⁶⁾	550 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1000	15	100	60
			H	13,5				530 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1000	20		
			P	75				530 ⁽²¹⁾⁽¹⁴⁾	from 730 to 930	20		
	1.4507 ⁽¹⁾	215	C	8	AT	32 ⁽¹⁸⁾	302 ⁽⁶⁾	550 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1000	17	100	60
			H	13,5				530 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1000	25		
			P	75				530 ⁽²¹⁾⁽¹⁴⁾	from 730 to 930	25		
1.4501 ⁽¹⁾		C	8	AT		270 ⁽⁶⁾	450 ⁽²¹⁾⁽¹⁴⁾	from 700 to 900	25	100	60	
		H	13,5				550 ⁽²¹⁾⁽¹⁴⁾	from 700 to 900	25			
		P	75				550 ⁽²¹⁾⁽¹⁴⁾	from 680 to 900	25			
1.4424 ⁽¹⁾		C	8	AT			650 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1050	20	100	60	
		H	13,5				550 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1050	20			
		P	75				550 ⁽²¹⁾⁽¹⁴⁾	from 750 to 1000	20			
FERRITIC	1.4003 ⁽¹⁾		C	8	A	89 ⁽¹²⁾	183 ⁽⁴⁾	320 *	from 450 to 650	20	100 ⁽¹⁷⁾	
			H	13,5				280 *	from 450 to 650	18		
			P	25 ⁽¹⁶⁾				280 *	from 450 to 650	18		
	1.4512 ⁽¹⁾	409	C	8	A	75 ⁽¹⁸⁾		220 *	from 380 to 560	25	150 ⁽¹⁶⁾	
			H	13,5				320 *	from 450 to 650	23		
			P	25 ⁽¹⁶⁾				280 *	from 450 to 650	20		
	1.4516 ⁽¹⁾		C	8	A			250 *	from 400 to 600	19		
			H	13,5				230 *	from 400 to 600	17		
			P	25 ⁽¹⁶⁾				230 *	from 400 to 600	17		
	1.4000 ⁽¹⁾	410 S	C	8	A	89 ⁽¹²⁾	183 ⁽⁴⁾	230 *	from 400 to 600	19		
			H	13,5				230 *	from 400 to 600	17		
			P	25 ⁽¹⁶⁾				230 *	from 400 to 600	17		
	1.4002 ⁽¹⁾	405	C	8	A	75 ⁽¹⁸⁾		230 *	from 400 to 600	17		
			H	13,5				150 ⁽¹⁷⁾	from 400 to 600	16		
			P	25 ⁽¹⁶⁾				150 ⁽¹⁷⁾	from 400 to 600	14		
1.4589 ⁽¹⁾		C	8	A	80	163	380 *	from 550 to 750	16			
		H	13,5				276 *	from 550 to 750	14			
								483	30 *			