

EVERYTHING. FOR THE BEST SOLUTION.



AUSTENITIC STAINLESS STEELS

MATERIAL DATA SHEET

Austenitic Stainless Steels



The specified mechanical properties refer to an annealed tube version. Other comparable materials are available upon request.

Steel grade	Standard	Descr.	C max. [%]	Cr [%]	Mo [%]	Ni [%]	Others [%]	Rp0,2 min. [MPa]	Rm min. [MPa]	A5/A ^{""} min. [%]
1.4301	EN 10217-7		0.045**	17.50 – 19.50	-	8.00 – 10.50	N to 0.10	210	520 - 750	40
TP 304	ASTM A 249		0.045**	18.00 – 20.00	-	8.00 – 11.00	-	205	515	35*
1.4306	EN 10217-7		0.030	18.00 – 20.00	-	10.00 – 12.00	N to 0.10	180	460 - 680	40
TP 304 L	ASTM A 249		0.030	18.00 – 20.00	-	8.00 – 12.00	-	170	485	35*
1.4307	EN 10217-7		0.030	17.50 – 19.50	-	8.00 – 10.50	N to 0.10	200	500 - 700	40
1.4376	EN 10088-2	H 400	0.100	17.00 – 20.50	-	2.00 – 4.50	Mn 5.00 – 8.00 / N to 0.30	400	600 - 900	40
1.4401	EN 10217-7		0.045**	16.50 – 18.50	2.00 – 2.50	10.00 – 13.00	N to 0.10	205	510 - 710	40
TP 316	ASTM A 249		0.045**	16.00 – 18.00	2.00 – 3.00	10.00 – 14.00	-	205	515	35*
1.4404	EN 10217-7		0.030	16.50 – 18.50	2.00 – 2.50	10.00 – 13.00	N to 0.10	190	490 - 690	40
TP 316 L	ASTM A 249		0.030	16.00 – 18.00	2.00 – 3.00	10.00 – 14.00	-	170	485	35*

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1.4432	EN 10217-7		0.030	16.50 – 18.50	2.50 – 3.00	10.50 – 13.00	N to 0.10	190	490 - 690	40
1.4435	EN 10217-7		0.030	17.00 – 19.00	2.50 – 3.00	12.50 – 15.00	N to 0.10	190	490 - 690	40
1.4436	EN 10217-7		0.050	16.50 – 18.50	2.50 – 3.00	10.50 – 13.00	N to 0.10	205	510 - 710	40
1.4529	EN 10217-7		0.020	19.00 – 21.00	6.00 – 7.00	24.00 – 26.00	N 0.15 – 0.25 / Cu 0.50 – 1.50	300	600 - 800	40
Alloy 926	ASTM A 249		0.020	19.00 – 21.00	6.00 – 7.00	24.00 – 26.00	N 0.15 – 0.25 / Cu 0.50 – 1.50	295	650	35*
1.4539	EN 10217-7		0.020	19.00 – 21.00	4.00 – 5.00	24.00 – 26.00	N to 0.15 / Cu 1.20 – 2.00	220	520 - 720	35
1.4541	EN 10217-7		0.050**	17.00 – 19.00	-	9.00 – 12.00	Ti 5xC to 0.70	200	500 - 730	35
TP 321	ASTM A 249		0.050**	17.00 – 19.00	-	9.00 – 12.00	Ti 5(C+N) to 0.70 / N bis 0.10	205	515	35*
1.4547	EN 10217-7	254 SMO	0.020	19.50 – 20.50	6.00 – 7.00	17.50 – 18.50	N 0.18 – 0.25	300	650 – 850	35

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1.4550	EN 10217-7		0.050**	17.00 – 19.00	-	9.00 – 12.00	Nb 10xC to 1.00	205	510 - 740	35
1.4562	VdTÜV – Wb509/2	Alloy 31	0.015	26.00 – 28.00	6.00 – 7.00	30.00 – 32.00	Cu 1.00 – 1.40 / N 0.15 – 0.25 / Fe Rest	280	650 - 850	40
1.4571	EN 10217-7		0.050**	16.50 – 18.50	2.00 – 2.50	10.50 – 13.50	Ti 5xC to 0.70	210	500 - 730	35
TP 316 Ti	ASTM A 312		0.050**	16.00 – 18.00	2.00 – 3.00	10.00 – 14.00	5x(C+N) to 0.70 / N to 0.10	205	515	20*
1.4580	EN 10088-2		0.050**	16.50 – 18.50	2.00 – 2.50	10.50 – 13.50	Nb 10xC to 1.00	220	520 - 720	40
1.4591	VdTÜV – Wb516	Alloy 33	0.015	31.00 – 35.00	0.50 – 2.00	30.00 – 33.00	Cu 0.30 – 1.20 / N 0.35 – 0.60 / Fe Rest	380	720 - 920	40
1.4828	EN 10296-2		0.200	19.00 – 21.00	-	11.00 – 13.00	Si 1.50 – 2.50 / N to 0.11	230	550	30
1.4835	EN 10296-2		0.050 - 0.120	20.00 – 22.00	-	10.00 – 12.00	Si 1.40 – 2.50 / N 0.12 – 0.20 / Ce 0.03 – 0.08	310	650	40
1.4845	EN 10296-2		0.100	24.00 – 26.00	-	19.00 – 22.00	N to 0.11	210	500	35

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1.4876	VdTÜV – Wb412	Alloy 800	0.040 – 0.100	19.00 – 23.00	-	30.00 – 34.00	Al 0.15 – 0.60 / Ti 0.15 – 0.60	170	450 - 700	35
1.4878	SEW 470		0.120	17.00 – 19.00	-	9.00 – 12.00	Ti 4xC to 0.80	210	500 -750	40

** Analysis Limitation