

## Physical properties of stainless steel

Physical properties of stainless steel:

- **Ductility:** It is a material that can be easily deformed without breaking, as long as an adequate force is applied to it.
- **Tenacity:** Stainless steel is very resistant to impacts.
- **Hardness:** Stainless steel is not easily scratched, due to its high resistance to abrasive agents.
- **Hygienic:** It is a material that is easy to clean with any traditional cleaning product.
- **Density:** 8 g/cm<sup>3</sup>
- **Melting point:** 1400-1450°C
- **Electrical resistivity:** 72  $\Omega$ -cm
- **Thermal conductivity:** 15 W/m K
- **Thermal expansion coefficient:** 17.2  $\mu$ m/m K



### Technical information

CARACTERÍSTICAS	PROPIEDADES MECANICAS		PROPIEDADES FÍSICAS						
	CALIDADES		DENSIDAD	MÓDULO de ELASTICIDAD	COEF. MEDIO de EXPANSIÓN TÉRMICA		CONDUCT. TERMAL	CALOR ESPECÍFICO	RESIST. ELÉCTRICA
	Designación AISI / ASTM	Designación EN Número			a 20° C [kg/dm <sup>3</sup> ]	a 20° C [kN/mm <sup>2</sup> ]			
AUSTENITICO	201	1.4372	7.8	200	15.7	17.5	15	500	0.7
	202	1.4373	7.8	200	17.5	18.4	15	503	0.7
	301	1.431	7.9	200	17.92	18	15	500	0.73
	301L		7.9	200	16.5	17.5	15	500	0.73
	301LN	1.4318	7.9	200	16.5	17.5	15	500	0.73
	302		8.06	193	17.2	17.8	16.3	503	0.72
	303	1.4305	7.9	200	16.5	17.5	15	500	0.73
	304	1.4301	7.9	200	16.5	17.5	15	500	0.73

	304LN	1.4311	7.9	200	16.5	17.5	15	500	0.73
	304H	1.4948	7.9	200	16.9	17.8	17	450	0.71
	304L	1.4307	7.9	200	16.5	18	15	500	0.73
	304L	1.4306	7.9	200	16.5	17.5	15	500	0.73
	304N		8.06	196	16.5	17.5	15	503	0.72
	305	1.4303	7.9	200	16.5	17.5	15	500	0.73
		1.4828	7.9	200	16.5	17.5	15	500	0.85
	309S	1.4833	7.9	200	16	17.5	15	500	0.78
	310S	1.4845	7.9	200	15.5	17	15	500	0.85
	314	1.4841	7.9	200	15.5	17	15	500	0.9
	316	1.4401	8	200	15	17.5	15	500	0.75
	316	1.4436	8	200	15	17.5	15	500	0.75
	316N		8.06	196	15	17.5	15	503	0.74
	316H		8.03	193	15.9	16.2	16.3	500	0.74
	316L	1.4404	8	200	15	17.5	15	500	0.75
	316L	1.4435	8	200	15	17.5	15	500	0.75
	316 L	1.4432	8	200	15	17.5	15	500	0.75
	316LN	1.4406	8	200	15	17.5	15	500	0.75
	316LN	1.4429	8	200	15	17.5	15	500	0.75
	316Ti	1.4571	8	200	17.5	18.5	15	500	0.75
	316 Cb	1.458	8	200	17.5	18.5	15	500	0.75
	317		8.06	193	16	16.2	16.3	503	0.74
	317 L	1.4438	8	200	16.5	17.5	14	500	0.85
	317 LN	1.4434	8	200	16.5	17.5	15	500	0.75
	317 LMN	1.4439	8	200	16.5	17.5	14	500	0.85
	321	1.4541	7.9	200	16.5	17.5	15	500	0.73
	321 H	1.4878	7.9	200	17	18	15	500	0.73
	347	1.455	7.9	200	16.5	17.5	15	500	0.73
	347 H		8.03	193	16.6	18.2	16.1	500	0.72
		1.4335	7.9	195	16.1	16.9	14	450	0.85
	310 MoLN	1.4466	8	195	15.7	17	14	500	0.8
		1.4361	7.7	200	15.7	17	14	500	0.8
		1.4563	8	195	16.1	16.9	12	450	1
	904 L	1.4539	8	200	16.1	16.9	12	450	1
		1.4547	8	195	17	18	14	500	0.85
		1.4529	8.1	195	16.1	16.9	12	450	1
	330	1.4864	8	196	15	16	12.5	550	1
		1.4835	7.8	196	17	18	15	500	0.85
		1.4876	8	196	15	16	12	550	1
		1.4877	8	196	15.5	16.5	12	450	0.96

		1.4818	7.8	196	16.5	18	15	500	0.85
		1.4854	7.9	196	15.5	16.5	11	450	1
DUPLEX		1.4462	7.8	200	13.5	14	15	500	0.8
		1.4362	7.8	200	13.5	14	15	500	0.8
		1.441	7.8	200	12.5	13.5	15	500	0.8
		1.4507	7.8	200	12.5	13.5	15	500	0.8
		1.4501	7.8	200	13.5	13.5	15	500	0.8
FERRITICO	405	1.4002	7.7	220	11	12	30	460	0.6
		1.4003	7.7	220	10.8	11.6	25	430	0.6
	409	1.4512	7.7	220	11	12	25	460	0.6
	410 S	1.4	7.7	220	11	12	30	460	0.6
	429		7.78	200	10.3	12	25.7	460	0.59
	430	1.4016	7.7	220	10	10.5	25	460	0.6
		1.452	7.7	220	10.8	11.6	20	430	0.7
		1.4511	7.7	220	10	10.5	25	460	0.6
		1.4017	7.7	220	10.2	10.8	30	460	0.7
	434	1.4113	7.7	220	10.5	10.5	25	460	0.7
		1.4513	7.7	220	10.5	10.5	25	460	0.7
	439	1.451	7.7	220	10	10.5	25	460	0.6
		1.4516	7.7	220	10.5	11.5	30	460	0.6
	444	1.4521	7.7	220	10.8	11.6	23	430	0.8
	436	1.4526	7.7	220	11.7	12.1	30	440	0.7
		1.4509	7.7	220	10	10.5	25	460	0.6
	446	1.4749	7.7	200	10	11	17	500	0.7
		1.4713	7.7	200	11.5	12	23	450	0.7
		1.4724	7.7	200	10.5	11.5	21	500	0.75
		1.4762	7.7	200	10.5	11.5	17	500	1.1
MARTENSITICO	410	1.4006	7.7	215	11	12	30	460	0.6
	420	1.4021	7.7	215	11	12	30	460	0.6
	420	1.4028	7.7	215	11	12	30	460	0.65
	420	1.4031	7.7	215	11	12	30	460	0.55
	420	1.4034	7.7	215	11	12	30	460	0.55
		1.4116	7.7	215	11	11.5	30	460	0.65
		1.4122	7.7	215	10.8	11.6	15	430	0.8
		1.4313	7.7	200	10.9	11.6	25	430	0.6
		1.4418	7.7	200	10.8	11.6	15	430	0.8
PH	630	14542	7.8	200	10.8	11.6	16	500	0.71
	631	14568	7.8	200	11	11.6	16	500	0.8