

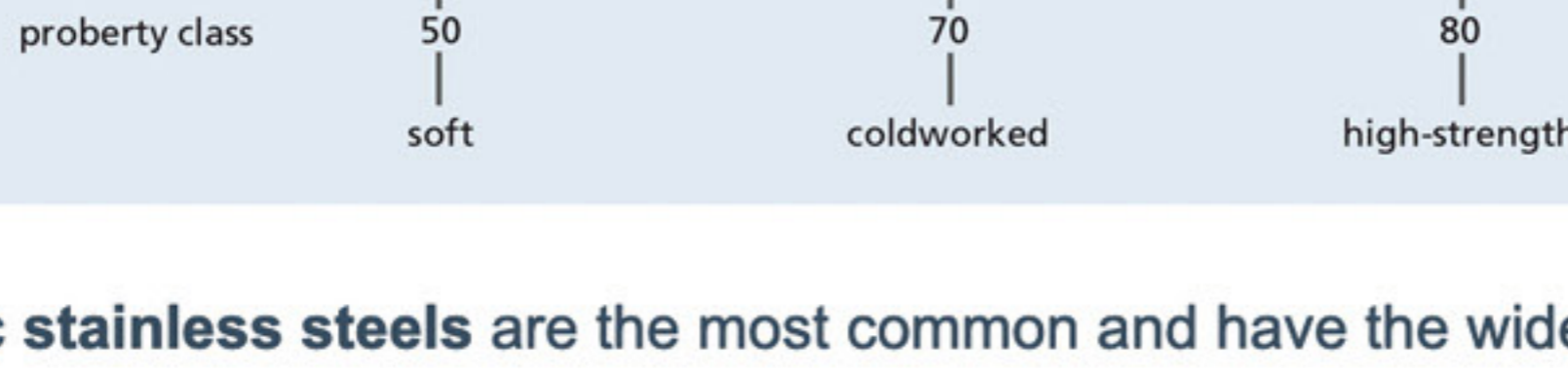
Rely on the right type of stainless steel

Hello ,

With more than 100 different types of stainless steel, it is not always easy to keep the overview and select the right material. First of all, stainless steels are divided into three groups with different advantages and disadvantages: austenitic, ferritic and martensitic.

Ferritic stainless steels have only moderate corrosion resistance and cannot be hardened by heat treatment, but they are cold formable. They are also highly magnetic.

Martensitic stainless steels are particularly strong because they can be hardened by heat treatment. However, most martensitic steel grades cannot be welded and are only suitable for mild corrosion conditions.



Austenitic stainless steels are the most common and have the widest range of applications. They are characterized by their comparatively high corrosion resistance. The austenitic stainless steel group also has various classifications. Our example illustrates how you can identify the steel groups and the strength classes using the four-digit sequence of letters and numbers.

Common austenitic steels and their chemical composition:

Tab. 10 – Common stainless steels and their chemical composition

	Material designation	Material Nr.	C%	Si≤ %	Mn≤ %	Cr%	Mo%	Ni%	Altri%
A2	X 5Cr Ni 1810	1.4301	≤ 0,07	1,0	2,0	17,0 bis 19,0	–	8,0 bis 10,5	–
	X 2 Cr Ni 1811	1.4306	≤ 0,03	1,0	2,0	18,0 bis 20,0	–	10,0 bis 12,0	–
	X 8 Cr Ni 19/10	1.4303	≤ 0,12	0,75	2,0	17,0 bis 19,0	–	11,0 bis 13,0	–
A3	X 6 Cr Ni Ti 1811	1.4541	≤ 0,10	1,0	2,0	17,0 bis 19,0	–	9,0 bis 12,0	Ti ≥ 5 X % C
A4	X 5 Cr Ni Mo 1712	1.4401	≤ 0,07	1,0	2,0	16,5 bis 18,5	2,0 bis 2,5	10,0 bis 13,0	–
	X 2 Cr Ni Mo 1712	1.4404	≤ 0,03	1,0	2,0	16,5 bis 18,5	2,0 bis 2,5	10,0 bis 13,0	–
A5	X 6 Cr Ni Mo Ti 1712	1.4571	≤ 0,10	1,0	2,0	16,5 bis 18,5	2,0 bis 2,5	10,5 bis 13,5	Ti ≥ 5 X % C

*Product recommendations



Chain short-link 8240

Similar to DIN 766, A4L and Duplex D6, 1 m, Ø 6 to 16 mm Made in Germany

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Countersunk head tapping screws, six lobe drive 14586446239

ISO 14586 1.4462 C 3.9X19 TX15 Duplex D6 - AISI 318LN In different sizes

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Stainless steel tube, welded, bendable 8292

A2 and A4 In different sizes

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Lock cylinder with strike plate 815070456

Stainless steel A4 - AISI 316 56 mm

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Fishing rod storage rack lockable 815062

A4/Plastic 2 parts, internal diameter 39mm

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