



1.4435

1.4435 is an acid-resisting austenitic CrNiMo-Steel with 18% Cr, approx. 14% Ni and at least 2.5% Mo. Due to the increased Mo-content, this material has a significantly improved corrosion resistance compared to other CrNi-Steels. 1.4435 is particularly resistant to reducing effecting organic and anorganic organic acids as well as against halogen-containing media. Furthermore, this steel is also less susceptible to pitting. The very low carbon content also improves the resistance to intergranular corrosion, allowing the use of this steel at elevated temperatures up to 450 ° C in continuous operation. 1.4435 can also be very well polished, very good deformable and can be welded excellent.

Gehe zu



Material Data Sheet

Material Designation	1.4435
AISI/SAE	316 L
EN Material Symbol	X2CrNiMo18-14-3
UNS	S 31603
B.S.	Z 3 CND 17 12 03 / Z 3 CND 18 14 03
Norm	DIN 17440/41

Main fields of application of 1.4435

1.4435 is mainly used in chemical and pharmaceutical industry and medical technology.

Chemical composition of 1.4435

C	Si	Mn	P	S	Cr	Mo	Ni	Cu
≤ %	≤ %	≤ %	≤ %	≤ %	%	%	%	≤ %
0,03	1,0	2,0	0,045	0,015	17,0-19,0	2,5-3,5	12,5-15,0	0,11

Characteristics of 1.4435

Density	Hardness (HB)
7,9 kg/dm ³	30 ≤ 215

Filler metal (for welding with 1.4435)

1.4430, 1.4576

Delivery program

Sheets / Plates mm

1 - 13

Coils mm

1 - 3

Bars & Billets dia. mm

6 - 70

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

Contact us



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Sales

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Services



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Weight Calculator