Data sheet

Stainless steel Antimagnetic SA

• Material

Material No.	1.4435
EN Symbol (short)	X2CrNiMo18-14-3
AISI/SAE	316 L
UNS	S 31603
AFNOR	—
B.S.	Z 3 CND 17 12 03 / Z 3 CND 18 14 03
Alloy	—
Registered Works Label	—
Standards	DIN 17440/41

• Chemical Composition[1]

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S [2] ≤ %	Cr %	Mo %	Ni %	V
0,030	1,0	2,0	0,045	0,015	17,0-19,0	2,5-3,5	12,5-15,0	
Nb	Ti	Al	Co	Cu	N ≤ %	Fe		
				0,11				

[1] in accordance with Key to Steel 2001
[2] for long products S ≤ 0,030 %, for products to be processed S = 0,015-0,030 %

• Thermal Characteristics

Antimagnetic in resistant up to temperature of around 400°C and is suitable for autoclave sterilization at 270°C

• Special Characteristics

Temperature - Range:	Density kg/dm³:	Hardness HB 30
n/a	8,0	≤ 215

Austenitic stainless steel, good intergranular corrosion resistance

Welding Filler

1.4430, 1.4576

Main fields of Application (depending of specific conditions of use)

textile industry, welded parts of enhanced chemical permanence, chemical industry

(all aforementioned specifications serve as a general orientation and have to be reviewed depending on the specific conditions of use)

• Description

The stainless austenitic steel 1.4435 a good resistance to corrosion thanks to hight concentration of molybdenum.