

1.4435

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 work's label	—
Standards	DIN 17440/41

DESCRIPTION

The stainless austenitic steel 1.4435 is mainly used in the pulp industry and textile industry. Our product range in 1.4435 are tubes and pipes, fittings and flanges, accessories.

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 %

SPECIAL CHARACTERISTICS

Temperature range:	Density kg/dm ³ :	Hardness HB 30
	8,0	≤ 215

Austenitic stainless steel, good intergranular corrosion resistance

WELDING FILLER

1.4430, 1.4576

MAIN FIELDS OF APPLICATION (depending on the specific conditions of use)

pulp industry, 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)