

1.4541

Material No.	1.4541
EN symbol (short)	X6CrNiTi18 10
AISI/SAE	321
UNS	S 32100
AFNOR	Z 6 CNDT 18-10
B.S.	321 S 31, 321 S51, 321 S18; 321 S 12
alloy	—
Registered work's label	—
Standards	VdTÜV 454

DESCRIPTION

The stainless austenitic steel 1.4541 is mainly used in the chemical industry and building industry. Our product range in 1.4541 are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION

C	Si	Mn	P	S*	Cr	Mo	Ni
≤ 0,08	≤ 1,0	≤ 2,0	≤ 0,045	≤ 0,015	17 – 19	-	9,0 – 12,0
Ti	Cu	N					
5 x C ≤ 0,70	2,5 – 4,0	≤ 0,05					

* for long products S ≤ 0,30; products to be processed S = 0,015 – 0,030

SPECIAL CHARACTERISTICS

Temperature range	Density kg/m ³	Hardness HB 30
up to 550° C	7,9	≤215
austenitic stainless steel		

WELDING FILLER

1.4316, 1.4551, 1.4576

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

chemical industry, film and photo industry, food industry, building industry

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