

## 1.4462

<b>Material No.</b>	1.4462
<b>EN symbol (short)</b>	X2CrNiMoN22-5-3
<b>AISI/SAE</b>	318 LN
<b>UNS</b>	S 31803
<b>AFNOR</b>	Z 2 CND 22-05 Az
<b>B.S.</b>	318 S 13
<b>alloy</b>	—
<b>Registered work's label</b>	—
<b>Standards</b>	VdTÜV 418, SEW 400/310

### DESCRIPTION

The austenitic special steel 1.4462 shows good pitting corrosion resistance. Main areas of application (depending on the specific conditions of use) are the chemical industry, paper and cellulose production, food industry and sea water piping.

Our product range in 1.4462 are tubes and pipes, fittings and flanges, accessories.

### CHEMICAL COMPOSITION <sup>1</sup>

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni %	V
0,03	1	2	0,035	0,015	21,0-23,0	2,5-3,5	4,5-6,5	
Nb	Ti	Al	Co	Cu	N %	Fe		
					0,1-0,22			

<sup>1</sup> in accordance with Key to Steel 2001

### SPECIAL CHARACTERISTICS

Temperature range:	Density kg/dm <sup>3</sup> :	Hardness HB 30
10°C – 280°C Tends towards 475°C embrittlement	7,9	≤ 270

Duplex steel with addition of Molybdenum  
Good resistance against pitting corrosion and intergranular corrosion.

### WELDING FILLER

1.4462

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

chemical industry, petrochemical industry, offshore, sea water piping, sea water desalination plants, nuclear technology, paper and cellulose production

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