

1.4958

Material No.	1.4958
EN symbol (short)	X5NiCrAlTi31-20
AISI/SAE	—
UNS	UNS N 08810
AFNOR	—
BS	—
alloy	alloy 800H
Registered work's label	Nicrofer®3220
Standards	SEW 310

DESCRIPTION

The elevated-temperature alloy 1.4958 (alloy 800H) is mainly used in high-temperature plants. Our product range in 1.4958 (alloy 800H) are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION ¹

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo	Ni ² ≤ %	V
0,03-0,08	0,07	1,5	0,015	0,01	19,0-22,0		30-32,5	
Nb ≤ %	Ti ³ %	Al ³ %	Co ≤ %	Cu ≤ %	N	Fe		
0,1	0,2-0,5	0,2-0,5	0,50 ²	0,50				

¹ in accordance with Key to Steel 2001 ² Ni+Co = 30-32,5% ³ Ti+Al ≤ 0,7%

SPECIAL CHARACTERISTICS

Temperature range	Density kg/m ³	Hardness (HB)
600°C - 950°C	8,0	

high-temperature resistant steel, very high creep strength: outstanding stability against carbonisation, oxidation and nitriding

WELDING FILLER

covered rod electrode 1.4958 or 2.4648

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

thermal treatment plants, branchpipes, jet pipes, muffles, cages, industrial furnaces, chemical industry, pressure bombs, building of steam boilers, petrochemical industry, coal gasification, waste incineration plants

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