

## 1.4876

<b>Material No.</b>	1.4876
<b>EN symbol (short)</b>	X10NiCrAlTi32-20
<b>AISI/SAE</b>	—
<b>UNS</b>	N 08800
<b>AFNOR</b>	—
<b>B.S.</b>	3072-3076(NA15)
<b>alloy</b>	alloy 800
<b>Registered work's label</b>	Nicrofer® 3220, Incoloy® 800
<b>Standards</b>	VdTÜV 412, SEW 310, 470

### DESCRIPTION

The nickel iron chrome alloy 1.4876 (alloy 800) is a heat-resistant steel. It possesses good firmness and outstanding stability against oxidation and carbonisation at high temperatures as well as good corrosion resistance against many aqueous solutions. Material 1.4876 (alloy 800) also keeps a stable austenitic structure at high temperatures.

Used for building of industrial furnaces, carbonisation plants, building of steam boilers, apparatus engineering, crude oil industry, heat exchangers.

Our product range in 1.4576 (alloy 800) are tubes and pipes, fittings and flanges, accessories.

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

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni %	V %
0,1	1,0	1,5		0,015	19,0-23,0		30,0-34,0	
Nb %	Ti	Al	Co ≤ %	Cu ≤ %	N %	Fe	Ce %	Y ≤ %
	0,15-0,60	0,15-0,60		0,75 max.		39,5 min.		

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

### SPECIAL CHARACTERISTICS

Temperature range	Density kg/dm <sup>3</sup>	Hardness HB
up to 1100°C in air	7,94	192

### WELDING FILLER

covered rod electrode 2.4648

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

building of industrial furnaces, carbonisation plants, building of steam boilers, apparatus engineering, crude oil industry, heat exchangers

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