

1.4742

Material No.	1.4742
EN symbol (short)	X10CrAlSi18
DIN Kurzname	X 10 CrAl 18
AISI/SAE	—
UNS	—
AFNOR	Z 12 CAS 18
BS	—
alloy	—
Registered work's label	—
Standards	DIN EN 10095, SEW 470

DESCRIPTION

The heat-resistant steel 1.4742 is mainly used in ignition tubes, annealing pots. Our product range in 1.4742 are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION ¹

C ≤ %	Si %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo	Ni	V
0,12	0,7-1,4	1,0	0,04	0,015	17,0–19,0			
Nb	Ti	Al ≤ %	Co	Cu	N	Fe		
		0,7-1,2						

¹ in accordance with Key to Steel 2001

SPECIAL CHARACTERISTICS

Temperature range	Density kg/m ³	Hardness (HB)
heat-resistant in air up to 850°C		
heat-resistant steel		

WELDING FILLER

1.4820, 1.4773, 1.4829

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

ignition tubes, annealing pots, building of industrial furnaces

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