

2.4889

Material No.	2.4889
EN symbol (short)	NiCr28FeSiCe
AISI/SAE	—
UNS	N 06045
AFNOR	—
B.S.	—
alloy	alloy 45TM
Registered work's label	Nicrofer® 45TM
Standards	VdTÜV 519; DIN EN 10095

DESCRIPTION

2.4889 (alloy 45 TM) is chiefly used in high-temperature applications with extremely corrosive media, such as ash corrosion, incineration gases, sulfur dioxide, caustic solution corrosion.

Our product range in 2.4889 (alloy 45 TM) are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION

C ≤ %	Si %	Mn ≤ %	P ≤ %	S* ≤ %	Cr %	Mo %	Ni %	V %
0,05-0,12	2,5-3,0	1,0	0,02	0,011	26,0-29,0		45,0 min.	
Nb %	Ti %	Al ≤ %	Co %	Cu ≤ %	N %	Fe %	Ce %	Y %
		0,2		0,3		21,0-25,0	0,03-0,08	

SPECIAL CHARACTERISTICS

Temperature range	Density kg/dm ³	Hardness	Other
Solution-annealed 500 to 750°C (coal gasification, waste incineration) -195°C to 950°C (Operating temperature of the pressure vessel)	8		non-scaling up to approx. 1000°C
stable in oxidizing, reductive, nitriding, and sulphureous media			

WELDING FILLER

covered rod electrode 2.4628

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

waste incineration plants, furnaces for refineries, chemical industry, coal gasification, building of industrial furnaces

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