

2.4600

Material No.	2.4600	
EN symbol (short)	NiMo29Cr	
AISI /SAE	—	—
UNS	N 10675	N 10629
AFNOR	—	—
B.S.	—	—
alloy	alloy B3	alloy B4
Registered work's label	Hastelloy® alloyB3	Nicrofer® 6629
Standards	VdTÜV 517	VdTÜV 512

DESCRIPTION

This nickel molybdenum alloy 2.4600 (alloy B3 or alloy B4) has good stability against intergranular corrosion. Very high resistance against reductive media such as hydrochloric acid and sulfuric acid over broad concentration and temperature ranges. 2.4600 (alloy B3 oder alloy B4) is used with acetic acid, hydrogen chloride, sulphuric acid, phosphoric acid, production of phenol, styrene plants.

Our product range in 2.4600 (alloy B3 oder alloy B4) are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION ¹ ALLOY B3

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni ≥ %	V ≤ %
0,01	0,01	3	0,025	0,015	0,3-3,0	26,0-32,0	65,0	0,20
Nb ² ≤ %	Ti ≤ %	Al %	Co ≤ %	Cu ≤ %	N %	Fe %	Ce %	W %
0,4	0,2	0,10-0,50	3,0	0,5		1,0-6,0		3,0

¹ in accordance with Key to Steel 2001 ² Nb + Ta

CHEMICAL COMPOSITION ³ ALLOY B4

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni ≤ %	V ≤ %
0,01	0,05	1,5	0,02	0,01	0,50-1,5	26,0-30,0	65,0	xx
Nb %	Ti %	Al %	Co ≤ %	Cu %	N %	Fe %	Ce %	W %
xx		0,10-0,50	2,5	0,5		2,0-6,0		xx

³ according to Krupp VDM

SPECIAL CHARACTERISTICS

Temperature range	Density kg/dm ³	Hardness
500°C-820°C	9,2	
high corrosion resistant nickel molybdenum alloy, good resistance against pitting and crevice corrosion		

WELDING FILLER

Rod (TIG welding) 2.4695

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

chemical industry, acetic acid, hydrogen chloride, sulphuric acid, phosphoric acid, production of phenol, styrene plants

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