M.WOITE
Sonderwerkstoffe
Edelstähle

1.4539

Material No.	1.4539
EN symbol (short)	X1NiCrMoCu25-20-5
AISI / SAE	—
UNS	N 08904
AFNOR	Z 2 NCDU 25-20
B.S.	—
alloy	alloy 904 L
Registered work's label	—
Normen	VdTÜV 421 , SEW 400

DESCRIPTION

Material 1.4539 (alloy 904L) is an austenitic special steel with high molybdenum content as well as addition of copper and extremely low carbon content.
Our product range in 1.4539 are tubes and pipes, fittings and flanges, accessories.

CHEMICAL COMPOSITION [1]

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni %	V
0,02	0,70	2,0	0,030	0,010	19,0-21,0	4,0-5,0	24,0-26,0	
Nb	Ti	Al	Co	Cu %	N ≤ %	Fe		
				1,20-2,00	0,15			

[1] in accordance with Key to Steel 2001

SPECIAL CHARACTERISTICS

Temperature range:	Density kg / m³	Hardness (HB)
pressure bomb/pressure vessel - 60°C bis 400°C	7,9	≤ 230

excellent stability against pitting corrosion, stress corrosion and intergranular corrosion

WELDING FILLER

1.4539, 1.4519

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

offshore, sea water technology, chemical industry, good stability against reducing acids of medium strength like sulphuric acid and phosphoric acid and various chloric media, refinery, paper industry, pulp industry

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

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