

1.4539 (X1NiCrMoCu25-20-5)

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International term: AISI 904L, AFNOR Z2NCDU25-20, SIS 2562, SS2562

Application field: 1.4539 is a stainless super austenitic nickel-chromium-molybdenum-copper steel, resistant to various organic and inorganic acids. Areas of application are the construction industry, the chemical and medical industries.

Characteristics:

Weldability: good

Wachinability: 5 (1 = bad - 10 = good)

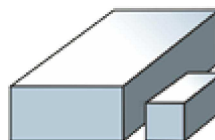
Corrosion class: 5 (0 = weak - 5 = good)

Chemical composition:

1.4539 X1NiCrMoCu25-20-5	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						19,0	4,0	24,0	
max.	0,02					21,0	5,0	26,0	

1.4539 X1NiCrMoCu25-20-5	Al	Cu	N	Nb	Ti	Sonstiges
min.		1,2				
max.		2,0				

From stock: flat, forged, quenched and tempered, pre-machined



Benefit of sawn cuts:

The processing with the saw is a mechanical processing of the material, which results in a significantly lower unintended deformation and increased hardness for the existing structure, such as the thermal cutting.

Thus, the machined workpiece has a homogeneous structure even at the edge, which does not change in the continuation of the material. This circumstance allows immediate finishing of the workpiece with milling or drilling . So it is not necessary to anneal the material or make a similar operation beforehand.
