



1.4539

UNS N08904 / AISI 904L

We are your stockholder!

Availability, a comprehensive range of products and quick service are the prerequisites of our well kept stock in grade 1.4539/904L. During the last years we could gather a lot of experience in forming, welding and surface technology of this specific material grade. Depending on the requirements, we are able to provide special surface conditions and to guarantee tight tolerances with regard to the outside and inside diameter. Give us a challenge

1.4539 – X1NiCrMoCu25-20-5

acc. DIN EN 10088, VdTÜV-Wbl. 421 and SEW 400

equivalent to: AISI 904L, Uranus B 6, Cronifer 1925 LC, UNS N08904

resistant to: media containing phosphor, sulphur and chlorides

to be used in:

sulphuric acid and phosphor plants, desulphurization plants, fertilizer plants, pulp industry, chemical industry and pharmaceutical industry, linepipe constructions

Note:

The low carbon content guarantees intergranular corrosion resistance of the welded condition. The high content of chromium and molybdenum ensures very good resistance to chlorides and stress corrosion cracking is prevented by a nickel content from 24.0% up to 26.0% in conjunction with the addition of copper.

Chemical composition (analysis) of 1.4539 (extract from DIN EN 10217-7, table 3)

Designation	Elements in %										
	Abbreviation	C	Si	Mn	P max.	S	Ni	Cr	Mo	Cu	N
X1NiCrMoCu25-20-5	≤ 0,020	≤ 0,70	≤ 2,00	0,030	≤ 0,010	24,00 up to 26,00	19,00 up to 21,00	4,00 up to 5,00	1,20 up to 2,00	≤ 0,15	

Stock of longitudinally welded stainless steel pipes in 1.4539 acc. to ASTM A312 / DIN EN 10217-7

DN / NB	OD (mm)	t (mm)	Weight (kg/m)*
25	33,7	2,00	1,60
32	42,4	2,00	2,04
40	48,3	2,00	2,34
50	60,3	2,00	2,95
		2,60	4,03
		2,77	4,03
65	76,1	2,30	4,29
80	88,9	2,30	5,04
		3,05	6,62
100	114,3	2,60	7,34
		3,05	8,58
125	139,7	2,90	10,03
		2,90	12,13
150	168,3	3,40	14,18
		7,11	28,98
		2,90	15,86
200	219,1	3,76	20,49
		4,00	21,76
		2,90	19,81
250	273,0	4,00	27,21
		4,19	28,47
		2,90	23,54
300	323,9	2,90	23,54

* Weights are indications only

Mechanical properties at ambient temperature for welded tubes made of 1.4539 for pressure purposes (extract from DIN EN 10217-7, Table 6 – solution annealed condition)

Abbreviation	0.2%-yield strength R _{p0.2} in MPa min.	1.0%-yield strength R _{p1.0} in MPa min.	Tensile strength R _m in MPa	Elongation A in % min. (longitudinal)	Elongation A in % min. (transverse)	Charpy impact energy KV in J min. (longitudinal)	Charpy impact energy KV in J min. (transverse)
X1NiCrMoCu25-20-5	220	250	520 up to 720	35	30	120	90