SUSTAINABLE STAINLESS STEEL

ALOK STEELS
steel re engineered

1.4539 904L

X1NiCrMoCu25-20-5	%C	%Si	%Mn	%P	%S	%N	%Cr	%Cu	%Mo	%Ni
	-	-	-	-	-	-	19.0	1.20	4.0	24.0
	0.020	0.70	2.00	0.030	0.010	0.15	21.0	2.00	5.0	26.0

STEEL PROPERTIES

1.4539 904L is a high-alloy austenitic stainless steel with excellent corrosion resistance, especially in aggressive environments. It is used in applications where resistance to various corrosive agents are critical.

EQUIVALENT GRADES

EN 10088-3	1.4539	X1NiCrMoCu25-20-5
AFNOR	Z1NCDU2520	
JIS	-	
AISI	904L	
BS	904S13	

APPLICATIONS

1.4539 904L is used in a wide range of applications, including chemical processing equipment, pharmaceutical and petrochemical industry components, heat exchangers, and marine applications. It is selected for situations where excellent corrosion resistance to a variety of corrosive media is required

HEAT TREATMENT

1.4539 904L is supplied in annealed +AT conditions.

Mechanical Values for 1.4539 904L at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	Tensile Strength R_m Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+AT	-	-	Max 800	-	-	-	-
<= 160	-	230	230	530 to 730	35	-	100	-

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Mechanical Values for 1.4539 904L Bright Bars at room temperature in EN 10088-3: 2014 in conditions 2H, 2B, 2G, 2P

Diameter (mm)	Annealed		Heat Treatment Condition	0.2% Proof strength min.	Tensile Strength R_m Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R_m Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
=<10	400	305	+AT	205	600 to 930	20	-	-	-
10<t<=16	400	305	+AT	190	600 to 930	20	-	-	-
16<t<=40	230	280	+AT	175	530 to 880	25	-	100	-
40<t<=63	230	260	+AT	160	530 to 880	25	-	100	-
63<t<=160	230	245	+AT	145	530 to 730	35	-	100	-

PRODUCTS OFFERED

- PEELED BARS
- BRIGHT BARS
- HEXAGONS
- SQUARES
- FLAT BARS
- WIRES