

Incoloy 945X

UNS N09946

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Nickel

Iron

Chromium

www.arialloy.com/incoloy-945x/

• Chemical Composition •

Al%	C%	Cr%	Nb%	Cu%	Fe%	Mn%
0.01 ~ 0.70	0.005 ~ 0.030	19.5 ~ 22.5	3.5 ~ 4.5	1.5 ~ 3.0	Balance	≤ 1.00
Mo%	Ni%	P%	Si%	S%	Ti%	
3.0 ~ 4.0	50.0 ~ 55.0	≤ 0.03	≤ 0.5	≤ 0.03	0.5 ~ 2.5	

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRC, max
Welded Pipe & Tube	Solution & Aging Treated	1035	896	18	...	42
Welded Pipe & Tube	Solution Treated	689	448	30	...	...

• Physical Properties •

Density		Melting Range	
lb/in ³	g/cm ³	°F	°C
0.296	8.2	2317 ~ 2510	1270 ~ 1377

• Main Standards •

Pipe & Tube	Welding Products
ASTM B1007	AWS A5.14 ERNiCrFe-3