

UNS S31277

Incoloy 27-7MO

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Iron

Nickel

Chromium

Molybdenum

www.arialloy.com/incoloy-277mo/

• Chemical Composition •

C%	Mn%	P%	S%	Si%	Cr%
≤ 0.020	≤ 3.00	≤ 0.030	≤ 0.010	≤ 0.50	20.5 ~ 23.0
Ni%	Mo%	N%	Cu%	Fe%	
26.0 ~ 28.0	6.5 ~ 8.0	0.30 ~ 0.40	0.50 ~ 1.50	Balance	

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRB, max
Pipe & Tube	All	770	360	40	...	100
Sheet, Strip & Plate	All	770	360	40	...	...

• Physical Properties •

Density	
lb/in ³	g/cm ³
0.289	8.02

• Main Standards •

Rod, Bar, Wire & Forging Stock	Plate, Sheet & Strip	Pipe & Tube	Fittings
ASTM A479/ASME SA 479	ASTM A240/ASME SA 240	ASTM A213/ASME SA 213 ASTM A249/ASME SA 249 ASTM A312/ASME SA 312	ASTM A182/ASME SA 182