

Kormax 316 Stainless Steel

Material Data Sheet

316 is a molybdenum-bearing austenitic stainless steel, offering better resistance to pitting and crevice corrosion than 304 in chloride and marine environments. Its 16-18% chromium / 10-14% nickel / 2-3% molybdenum composition gives excellent weldability and formability. It is widely used in marine, chemical and food industries.

Chemical Composition (%)

Element			
Iron	Fe	Balance	
Chromium	Cr	16.0 - 18.0	
Nickel	Ni	10.0 - 14.0	
Molybdenum	Mo	2.00 - 3.00	
Manganese	Mn	2.00 max	
Silicon	Si	0.75 max	
Carbon	C	0.08 max	
Phosphorus	P	0.045 max	
Sulfur	S	0.030 max	
Nitrogen	N	0.10 max	

Mechanical Properties

	Metric Values	Imperial Values
Tensile Strength Min	515 N/mm ²	75,000 psi
Yield Strength Min	205 N/mm ²	30,000 psi
Elongation Min	40%	40%
Hardness Max	201 HB	201 HB
Specific Gravity	8.0 g/cm ³	

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