

Kormax 304 Stainless Steel

Material Data Sheet

304 is the most widely used austenitic stainless steel, valued for excellent corrosion resistance and good weldability. Its 18% chromium / 8% nickel composition forms a stable, self-healing oxide layer. It offers good strength and ductility and is one of the most versatile, widely available stainless grades.

Chemical Composition (%)

Element			
Iron	Fe	Balance	
Chromium	Cr	18.0 - 20.0	
Nickel	Ni	8.0 - 10.5	
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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