

Kormax 303 Stainless Steel

Material Data Sheet

303 is a free-machining austenitic stainless steel, with added sulfur giving it the best machinability of the 300 series grades. Corrosion resistance is slightly reduced compared with 304, and it cannot be hardened by heat treatment. It is best suited to parts requiring heavy machining, such as fittings, bushings and fasteners.

Chemical Composition (%)

Element			
Iron	Fe	Balance	
Chromium	Cr	17.0 - 19.0	
Nickel	Ni	8.0 - 10.0	
Manganese	Mn	2.00 max	
Silicon	Si	1.00 max	
Carbon	C	0.15 max	
Phosphorus	P	0.20 max	
Sulfur	S	0.15 - 0.35	

Mechanical Properties

	Metric Values	Imperial Values
Tensile Strength (Typ.)	600 N/mm ²	87,000 psi
Yield Strength (Typ.)	240 N/mm ²	35,000 psi
Elongation (Typ.)	50%	50%
Hardness Max	262 HB	262 HB
Specific Gravity	8.0 g/cm ³	

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