

Kormax 2205 Duplex Stainless Steel

Material Data Sheet

2205 is a duplex (austenitic-ferritic) stainless steel with a roughly even split of austenite and ferrite, giving it around double the yield strength of standard austenitic grades. Its high chromium, molybdenum and nitrogen content provides excellent resistance to chloride stress corrosion cracking and pitting.

Chemical Composition (%)

Element			
Iron	Fe	Balance	
Chromium	Cr	22.0 - 23.0	
Nickel	Ni	4.5 - 6.5	
Molybdenum	Mo	3.0 - 3.5	
Manganese	Mn	2.00 max	
Silicon	Si	1.00 max	
Carbon	C	0.030 max	
Phosphorus	P	0.030 max	
Sulfur	S	0.020 max	
Nitrogen	N	0.14 - 0.20	

Mechanical Properties

	Metric Values	Imperial Values
Tensile Strength Min	655 N/mm ²	95,000 psi
Yield Strength Min	450 N/mm ²	65,000 psi
Elongation Min	25%	25%
Hardness Max	293 HB	293 HB
Specific Gravity	7.8 g/cm ³	

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