



Custom 455®



Custom 455® is a martensitic, age-hardenable stainless steel. This alloy represents a significant advancement in precipitation hardening stainless steel. Custom 455® has three times the yield strength of standard 304. It lends itself well to heat treatment and fabrication and has exceptionally high yield strength, good ductility, and toughness. Custom 455® resists staining in normal atmospheres and shows no corrosion in freshwater.

Call 1.888.282.3292 or visit our product page to request a quote on Custom 455®

Chemical Composition Percentage of Custom 455

	Element	Min	Max
Mn	Manganese	-	0.50
S	Sulfur	-	0.030
Cr	Chromium	11.00	12.00
Mo	Molybdenum	-	0.50
Ti	Titanium	0.80	1.40
Fe	Iron	-	Balance
C	Carbon	-	0.05
P	Phosphorous	-	0.040
Si	Silicon	-	0.50
Ni	Nickel	7.50	9.50
Cu	Copper	1.50	2.50
Nb/ Ta	Columbium & Tantalum	0.10	0.50

Inventory sizes and specifications for Custom 455Â®

Type	Thickness	Get a Quote
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Other industry standards we
comply with:

Industry Applications for Custom 455Â®

- Drill bits
- Drivers
- Distractors
- Shafts
- Surgical instruments for orthopedic,
spinal, and dental markets

Physical Properties

- Density Metric: 7.76 g/cm³
- Density Imperial: 0.280 lb/in³

Mechanical Properties