

## Products & Sizes

### Bar

2.000" - 7.000"

### Nitralloy 135® Chemical Composition

	Element	Min	Max
C	Carbon	0.38	0.43
Mo	Molybdenum	0.30	0.40
Mn	Manganese	0.50	0.80
Al	Aluminum	0.95	1.30
Si	Silicon	0.20	0.40
Ni	Nickel	-	0.25
Cr	Chromium	1.40	1.80
Cu	Copper	-	0.35
S	Sulfur	-	0.025
P	Phosphorous	-	0.025

### Industry Standards

- GE B5E1A S-22
- EN 10204
- Siemens Westinghouse PD-Spec 10305 HD SWPC AB

### Industry Applications

- Crankshafts
- Bolts
- Aircraft gears
- Pinions

## Related Industries

Alternative Energy

Power Generation

## Physical Properties

Property	Value
Density	0.297 lb/in <sup>3</sup> (8.22 g/cm <sup>3</sup> )

## Mechanical Properties

Property	Value
Tensile Strength	112 ksi min
Yield Strength	at 0.2% offset 90 ksi min
Elong in 4D	16% min
Reduction of Area	50% min
Bars	typically provided in the quenched and tempered condition
Hardness	Up to 3.125" dia inclusive BHN 241/285
	Over 3.125" to 6.000" inclusive BHN 229/285