

Products & Sizes

Bar

0.875" - 2.500"

901 Chemical Composition				Industry Standards	Industry Applications
	Element	Min	Max		
C	Carbon	-	0.10	<ul style="list-style-type: none"> B50A305B S12 (GE Energy) 	<ul style="list-style-type: none"> Power Generation Discs Rings Shafts Casings Seals
Mo	Molybdenum	6.00	-		
Si	Silicon	-	0.60		
Mn	Manganese		1.00		
Ni	Nickel	43.00	-		
Ti	Titanium	2.90	-		
Cr	Chromium	12.50	-		
Co	Cobalt	-	1.0		
Al	Aluminum	-	0.35		
B	Boron	0.010	0.020		
Fe	Iron	-	Balance		

Physical Properties

Property	Value
Density	0.297 lb/in ³

Non-magnetic, and generally offers high strength up to 1400 F, and oxidation resistance up to 1600 F.

Mechanical Properties

901 bar is ordered to AMS 5660 and is supplied either in solution annealed or solution annealed and aged, and may be machined in either condition. Good results are often obtained by rough machining in the solution annealed condition and finishing after heat treatment. Carbide tooling generally produces the highest cutting rates and is recommended for most turning operations involving uninterrupted cuts. High speed steel tools may be used for interrupted cuts, finishing to close tolerances and cutting with the least amount of cold work hardening. Care must be taken to ensure that a positive cutting action is achieved at all times, otherwise glazing (work hardening) will occur which will inhibit further machining.