

California Metal & Supply Inc.

ISO9001 & AS9100 Certified Company, Founded 1984
Titanium, Inconel, Nickel, Aluminum, A286, Stainless

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DATA SHEET: Waspaloy

Waspaloy is a nickel-base, age-hardenable superalloy with excellent high-temperature strength and good resistance to corrosion, notably to oxidation.

Applications: Waspaloy is used for aerospace and gas turbine engine components, compressor and rotor discs, shafts, spacers, seals, rings and casings, fasteners and other miscellaneous engine hardware, airframe assemblies and missile systems.

Specifications: Waspaloy, UNS N07001

Chemical Composition Limits															
Weight %	Cr	B	Zr	Al	Ti	Mo	Co	Cu	Fe	S	Si	Mn	C	P	Ni
Waspaloy	18-21	0.003-0.01	0.02-0.12	1.2-1.6	2.75-3.25	3.5-5.0	12-15	0.50 max	2 max	0.030 max	0.75 max	1 max	0.02-0.10 max	0.030 max	Bal

Typical Mechanical Properties

Material	Condition	Thickness	Temp	Tensile Strength ksi	Yield Strength ksi	Elongation in 4D	Hardness HRC
Sheet	Sol Treated, Stabilization + Precipitation HT	0-0.020"	Room	170	110	15	34-44
Sheet	Sol Treated, Stabilization + Precipitation HT	0-0.020"	1000°F	145	100	13	
Sheet	Sol Treated, Stabilization + Precipitation HT	over 0.020"	Room	175	115	20	34-44
Sheet	Sol Treated, Stabilization + Precipitation HT	over 0.020"	1000°F	150	105	15	