

## Waspaloy

Waspaloy is a nickel based, age hardenable superalloy. It has excellent strength at temperatures up to 870°C. Alloying additions of aluminium and titanium give it high strength and age hardening. The alloy has good oxidation resistance up to over 1000°C.

Applications include gas turbine engine parts, airframe assemblies and missile components.

## National Specifications

ASTM	UNS	SAE AMS	British Standard	Werkstoff
-	N07001	5708 5706	-	2.4654

Material may also be released to Customer Specifications, subject to enquiry.

## Technical Data

	C	Si	Mn	Co	CR	Mo	Fe	Ti	Al	Zr	Ni	B	Cu	P	S	-
Min	0.03	-	-	12.00	18.00	3.50	-	2.75	1.20	0.02	-	0.003	-	-	-	%
Max	0.10	0.75	1.00	15.00	21.00	5.00	2.00	3.75	1.60	0.12	Bal	0.010	0.50	0.030	0.030	%

Typical Mechanical Properties (Oil patch)

Age Hardened	KSI	MPa	%
Tensile Strength, min	175	1207	-
Yield Strength (0.2% offset), min	120	827	-
Elongation on 4D, min	-	-	15
Reduction of Area, min	-	-	18
Hardness min	341 - 401 HB	-	-