



Grade	Code	UNS	Nickel Alloys
Inconel 718	Alloy 718 (2.4668)	N07718	

Nickel Alloy Properties

Alloy 718 is an age-hardened nickel-chromium alloy containing also significant amounts of iron, niobium and molybdenum along with lesser amounts of aluminum and titanium. This provides a high strength alloy combined with corrosion resistance. Service temperatures range from -250°C to about 650°C. This alloy has also very good weld ability.

Chemical Composition (Inconel 718)

Ni %	Cr %	NB+Ta %	Mo %	Mn %	Si %	Al %	Ti %	Cu %	Fe %
55,00 – 58,00	17,00 – 21,00	4,75 – 5,50	2,80 – 3,30	0,35 max.	0,35 max.	0,20 – 0,80	0,65 – 1,05	0,30 max.	Balance

Mechanical Properties

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness[HB]	Density [g/cm ³]
Bar & Rod	725 – 1000	895 – 1250	≥ 30	248 – 363	8,2

Suitable For

Alloy 718 was originally developed for the aerospace industry, and is now not only used in engines, gas turbines, or other components of the aircraft industry, but also in nuclear reactors, springs and high-strength bolts. In the oil and gas industry Alloy718 is also very popular because of its corrosion resistance and strength.

Remarks

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BH DÖVME METAL SANAYİ ve TİCARET LTD. ŞTİ.

Hatip Mah. 1708. Sk. D Blok No. :6

Çorlu/ TEKİRDAĞ

info@bhmetal.com.tr

www.bhmetal.com.tr

Specification

Inconel 718, Alloy 718 (2.4668), N07718.

Norm

ASTM B637, B670, B906, NACE MR0175.