

Nickel-based Superalloy UNS N07718 Material Data Sheet

Powder Description

UNS N07718 powder is a nickel-based superalloy powder. Parts manufactured from UNS N07718 can be hardened by precipitation strengthening heat treatments. UNS N07718 parts are widely applied into aerospace and oil&gas fields. Parts made from UNS N07718 are suitable for:

- High tensile, fatigue and creep properties at both ambient and elevated temperatures
- Good corrosion resistance

Safety Recommendation

Please refer to the Safety Data Sheet (SDS) provided.

Chemical Composition

Elements [1]	Ni	Cr	Nb	Mo	Ti	Al	Co	Cu	C	Fe	other
Min [wt.%]	50	17	4.75	2.8	0.65	0.2	0	0	0	Bal.	0
Max [wt.%]	55	21	5.5	3.3	1.15	0.8	1	0.3	0.08	Bal.	0.73

Powder Properties

Particle Size Distribution [μm] [2]	Flowability [s/50g] [3]	Apparent Density [g/cm^3] [4]
15 - 45	<18	3.96

Additional Comments

- [1] The data is valid for the powder material
 [2] Particle size distribution is measured according to ISO 13322-2
 [3] Flowability is measured according to DIN EN ISO 4490
 [4] Apparent density is measured according to DIN EN ISO 3923-1