

Inconel 718SPF

UNS N07719

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Nickel

Chromium

Iron

Niobium

<https://www.arialloy.com/inconel-718spf/>

Chemical Composition

C%	Mn%	Si%	P%	S%	Cr%	Ni%	Mo%
≤ 0.05	≤ 0.35	≤ 0.35	≤ 0.015	≤ 0.002	17.0 ~ 21.0	50.0 ~ 55.0	2.80 ~ 3.30
Nb%	Ti%	Al%	Co%	B%	Cu%	N%	Fe%
4.75 ~ 5.25	0.65 ~ 1.15	0.20 ~ 0.80	≤ 1.00	≤ 0.006	≤ 0.30	≤ 0.01	Balance

Mechanical Properties

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HR
Sheet, Strip & Plate	≤ 0.25mm Solution Treated	1276	1069	...	...	≤ 34C
Sheet, Strip & Plate	0.25 ~ 2.03mm Solution Treated	1276	1069	20	...	≤ 34C
Sheet, Strip & Plate	≤ 0.25mm Solution & Aged	1241	1020	...	...	...
Sheet, Strip & Plate	0.25 ~ 2.03mm Solution & Aged	1241	1020	5	...	...

Physical Properties

Density		Melting Range		Curie Temperature	
lb/in ³	g/cm ³	°F	°C	°F	°C
0.297	8.22	2300 ~ 2437	1260 ~ 1335	-170	-113

Main Standards

Plate, Sheet & Strip

SAE AMS 5914
SAE AMS 5950