

TMPN718

Aug 2025



Alloy	Ni	Cr	Fe	Mo	Others
TMPN718	Balance	19	19	3	Nb, Ta, C, Ti, Al
Powder Type:	Gas Atomized				
Particles Sizes Available:	-150/+45µm, -180/+53µm, and others upon request				
Typical Hardness:	40 HRC				
Apparent Density:	-				
Flow Rate:	-				

Application:

- Aerospace products

Process:

- PTA (Plasma Transferred Arc)
- Laser Cladding

Hazards:

Observe safe practices.

See TMetal material safety data sheet for details.

Standard Sizes & Packaging:**Particle Size**

-150/+45µm,
-180/+53µm

And others upon request

Packaging

5kg/ bottle

Product Overview

TMPN718 is a nickel-chromium-iron vacuum alloy that is typically used for structural parts requiring strength up to 1300°F (704°C) and oxidation resistance up to 1800°F (982°C). This age-hardenable alloy can be readily cast and fabricated into complex parts and its welding characteristics, especially its resistance to postweld cracking, are outstanding. The ease and economy with which TMPN718 can be fabricated — combined with excellent tensile, fatigue, and creep and rupture strength — have resulted in its use in a wide range of applications.

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