

TMPN50

Aug 2025



Alloy	Ni	Si	Cr	Others
TMPN50	Balance	4	11	B, C, Fe, Mn
Powder Type:	Gas Atomized			
Particles Sizes Available:	-150/+45µm, -180/+53µm, and others upon request			
Typical Hardness:	48-54 HRC			
Apparent Density:	-			
Flow Rate:	-			

Application:

- Oil Excursion Screws
- Valve components
- Centrifuges
- Liner

Process:

- PTA (Plasma Transferred Arc)
- Laser Cladding

Hazards:

Observe safe practices.
See TMetal material safety data sheet for details.

Standard Sizes & Packaging:

Particle Size	Packaging
-150/+45µm,	5kg/ bottle
-180/+53µm	
And others upon request	

Product Overview

TMPN50 is a nickel- chromium- silicon based powder that produces very hard dense corrosion surfaces with superior fusing characteristics. The strong corrosion resistant coatings can retain its hardness up to 400° C. TMPN50 is ideal for use in wide variety of applications including bearings, extruder screw flights, valves and liners.

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