



Alloy	Ni	Cr	Si	Others
TMPN50	Balance	11	4	B, C, Fe, Mn
<b>Chemical Name:</b>	Nickel- Chromium- Silicon			
<b>Powder Morphology:</b>	Gas Atomized			
<b>Particles Sizes Available:</b>	-100/+50, -45/+15 and others upon request			
<b>Typical Hardness:</b>	48-54 HRC			

Application:	Process:
<ul style="list-style-type: none"> <li>▪ Oil Excursion Screws</li> <li>▪ Valve components</li> <li>▪ Centrifuges</li> <li>▪ Liner</li> </ul>	<ul style="list-style-type: none"> <li>▪ PTA (Plasma Transferred Arc)</li> <li>▪ HVOF (High-Velocity Oxy-Fuel Spray)</li> <li>▪ Laser Cladding</li> <li>▪ 3D Printing</li> </ul>

Hazards:	Standard Sizes & Packaging:								
<p>Observe safe spraying practices.</p> <p>See Tormetal material safety data sheet for details.</p>	<table border="1"> <thead> <tr> <th>Particle Size</th> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>-100/+50 microns</td> <td>5kg/ bottle</td> </tr> <tr> <td>-45/+15 microns</td> <td></td> </tr> <tr> <td colspan="2">And others upon request</td> </tr> </tbody> </table>	Particle Size	Packaging	-100/+50 microns	5kg/ bottle	-45/+15 microns		And others upon request	
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### 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. TMP50 is ideal for use in wide variety of applications including bearings, extruder screw flights, valves and liners.

**Contact:** [tmetal.com/contact](http://tmetal.com/contact)