



Alloy	Co	Cr	W	C	Others
TMP12	Balance	29	8.5	1.4	Si, Fe, Mo, Ni, Mn
Chemical Name:	Cobalt-Chromium-Tungsten-Carbon				
Powder Morphology:	Gas Atomized				
Particles Sizes Available:	-150/+53, -45/+15 and others upon request				
Typical Hardness:	42-48 HRC				

Application: **Process:**

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| <ul style="list-style-type: none"> ▪ Saw tips ▪ Cutting blades ▪ Extrusion screws ▪ Other erosion and abrasion wear applications | <ul style="list-style-type: none"> ▪ PTA (Plasma Transferred Arc) ▪ HVOF (High-Velocity Oxy-Fuel Spray) ▪ Laser Cladding ▪ 3D Printing |
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Hazards: **Standard Sizes & Packaging:**

Observe safe spraying practices.
See Tormetal material safety data sheet for details.

Particle Size	Packaging
-150/+53 microns	5kg/ bottle
-45/+15 microns	

And others upon request

Product Overview

TMP12 is a tungsten carbide-cobalt-chrome powder and can be processed through PTA, HVOF and Laser cladding systems. As an intermediate alloy between TMP01 and TMP06, TMP12 has increased resistance to low angle erosion, abrasion, and severe sliding wear whilst maintain high impact and cavitation resistance. It is ideal for use in textile, lumber and plastics industries.

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