



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

**Application:**

- Saw tips
- Cutting blades
- Extrusion screws
- Other erosion and abrasion wear applications

**Process:**

- PTA (Plasma Transferred Arc)
- HVOF (High-Velocity Oxy-Fuel Spray)
- Laser Cladding

**Hazards:**

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

**Standard Sizes & Packaging:**

**Particle Size**      **Packaging**  
-150/+53 microns      5kg/ bottle  
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.

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