Data sheet

TMP694

Aug 2025

Alloy	Co	Cr	W	C	Ni	Others
TMP694	Balance	28.5	19.5	0.9	5.0	V, Fe, Si, Mn
Powder Type:	Gas Atomized					
Particles Sizes Available:	-150/+45µm, -180/+53µm, and others upon request					
Typical Hardness:	44-50 HRC					
Apparent Density:	-					
Flow Rate:	-					

Application:

- Valve seats
- Cutting blades
- Seal rings
- Other erosion and abrasion wear applications

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, -180/+53µm	5kg/ bottle

And others upon request

Product Overview

TMP694 is a tungsten carbide-cobalt-chrome powder which has a high tungsten content to ensure high matrix strength at elevated temperatures (up to 1148ºC or 2100ºF). This alloy exhibits good resistance to wear, creep, erosion, thermal fatigue, and oxidation. The principal application is for hard-facing turbine blade interlock surfaces. Used in gas turbine parts where a higher hardness than TMP31 is required.

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