

TMP190

Aug 2025



Alloy	Co	Cr	W	C	Others
TMP190	Balance	26	14	3.3	Fe, Ni, Si, Mo, Mn
Powder Type:	Gas Atomized				
Particles Sizes Available:	-150/+45µm, -180/+53µm, and others upon request				
Typical Hardness:	52-60 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**

-150/+45µm,
-180/+53µm

And others upon request

Packaging

5kg/ bottle

Product Overview

TMP190 is a tungsten carbide-cobalt-chrome powder, primarily used for the hardfacing of bearing journals in tricone rotary rock bits used in the oil and gas industry. Tricone bits operate in hot and extremely abrasive downhole conditions. Due to the high proportion of carbides, which provide the abrasion resistance, care must be taken to minimize cooling stresses incurred during hardfacing and to avoid service conditions which involve severe mechanical or thermal shock.

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