Data sheet

TMP31

Aug 2025

Alloy	Co	Cr	W	C	Ni	Others
TMP31	Balance	26	7.5	0.5	10.5	Mo, Fe, Si
Powder Type:	Gas Atomized					
Particles Sizes Available:	-150/+45μm, -180/+53μm, and others upon request					
Typical Hardness:	25-35 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
- HVOF (High-Velocity Oxy-Fuel Spray)

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

TMP31 is superior in stress-rupture properties to many alloys commercially available, especially at 1700°F (926°C) and 1800°F (980°C). TMP31 is resistant to oxidizing and reducing atmospheres up to 2100°F (1150°C).It has excellent resistance to thermal and mechanical shock. Due to its high temperature properties, TMP31 is often used in gas turbine engines in areas subject to hot gas erosion, as well as furnace working tools that require a combination of mechanical integrity and hot wear resistance.

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