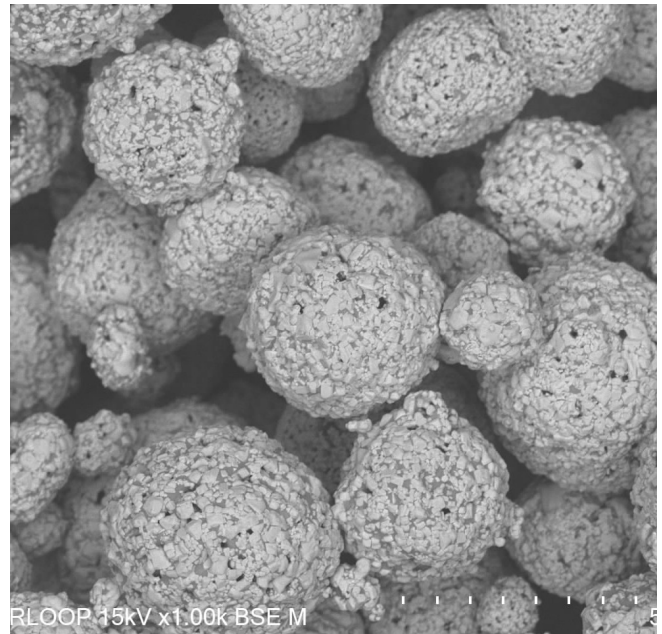




Tungsten Carbide 17% Cobalt (WC-17Co)

Product Features

WC-17Co powder containing 83% tungsten carbide (WC) and 17% cobalt (Co), primarily deposited via High-Velocity Oxy-Fuel (HVOF) and service up to 500 °C (930 °F). Its key feature is higher ductility and fracture toughness compared to other WC-Co formulations, thanks to the increased cobalt content. This provides coatings with superior fretting and impact resistance, making them exceptionally tough. While it offers high hardness, it is not as hard as WC-12Co but is more resilient to impact.



Typical Uses and Applications

For use in environments with significant impact or fretting wear but are not highly corrosive, including aircraft landing gear, pump seals, exhaust fans, and crushing rollers.

Chemical Composition

	W	Co	Total C	O	Fe
P-WC017	Bal.	16.0-18.0	4.8-5.6	≤0.1	≤0.5

Physical Characteristics

	Manufacturing method	Nominal particle size (µm)	Typical flow rate (s/50g)	Typical apparent density (g/cm ³)
P-WC017	Agglomerated & sintered	-45/+15, -105/+45	13.9	4.7

Other size on request

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