



MATRIX TUNGSTEN POWDER

WCS/WCX Series

Technical Data Sheet



Matrix powders comprise a wide variety of powder types and powder sizes that are used mainly in infiltration applications.

WCS powders blend various metal additives with tungsten carbide powder based on customer needs

WX powders are partially sintered mixtures of tungsten with a metal binder such as iron or nickel

APPLICATIONS: Infiltration

PHYSICAL PROPERTIES				METALLIC CONTENT (WT%)			
Type	Average Fisher Particle Size FSSS (µm)	Apparent Density (g/in ³)	Tap Density (g/cc)	Cast WC	Crushed WC	Fe/Ni/Cu	WC
WCS	20.0–30.0	100–140	8.0–10.0	0–30.0	0–30.0	0–5.0	Balance
				Binder		W	
WX	30.0–50.0	110–140	8.0–10.0	0–10.0			Balance

Customizations are available, including

- Different Compositions of Metallic Content
- Increased Apparent Density
- Narrower Particle Size Distribution
- Special Mesh Size Screenings
- Improved Flow Properties