



THERMAL SPRAY POWDER

WCT Series

Technical Data Sheet



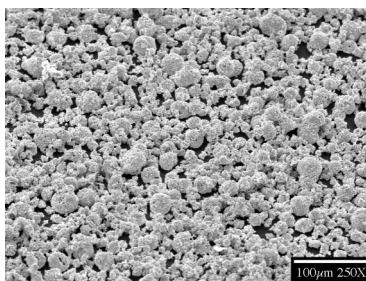
Our high quality Thermal Spray powders are agglomerated sintered materials normally applied with a plasma gun. They provide dense, hard surface coatings with excellent wear properties at low temperatures (<500 C). Various compositions are used to achieve properties necessary for unique applications.

WCT 74/20/6 powders provide superior oxidation, corrosion and chemical resistance up to 750 C

WCT 90WC/10Ni powders provide better corrosion properties and deposition efficiency than WC/Co powders

APPLICATIONS: Surface Coating

METALLIC CONTENT (WT%)					PHYSICAL PROPERTIES	
All Type	C	Co	Cr	W	Apparent Density (g/cc)	Available Sizes
WCT 88/12VF	5.2–5.6	10.0–13.0	0	Balance	>3.0	>20 μm 10% max D50 5-10 μm
WCT 86/10/4	5.0–5.4	9.0–11.0	3.5–4.5	Balance	>4.0	
WCT 83/17	4.8–5.6	15.0–17.0	0	Balance	>4.0	-53 +15 μm
WCT 88/12	5.2–5.6	10.0–13.0	0	Balance	>4.0	-53 +10 μm
	C	Ni	Cr	W		-45 +15 μm
WCT 74/20/6	<1.0	<1.0	16.0–18.0	Balance	>3.5	-45 +10 μm
WCT 90WC/10Ni	5.6–5.6	9.0–11.0	0	Balance	>4.0	-30 +5 μm



SEM photo of WCT powder