

Physical Properties

Product Code	PSD (Microtrac)	Phase (XRD)	Apparent Density	Color
MC-TSP- 8YSZ	-88+20 μ	Monoclinic <1%	2	Cream

Typical Chemistry (Wt.%)

ZrO2	HfO2	Y2O3	SiO2	TiO2	Al2O3	U + TH	Fe2O3
Balance	<2	>7	0.5	0.07	<0.05	<0.05	<0.05

Product Description

8% Ytria-Stabilized Zirconia (8 YSZ) powder is engineered for thermal barrier coatings (TBCs) in high temperature environments such as turbine engines and industrial gas turbines. It provides low thermal conductivity, phase stability, and thermal shock resistance, making it ideal for use in demanding thermal spray applications.

Typical Applications

- Thermal barrier coatings (TBCs) for turbine blades, combustors, and transition ducts
- Heat shields and insulating components in aerospace & power generation
- Diesel and automotive engine components

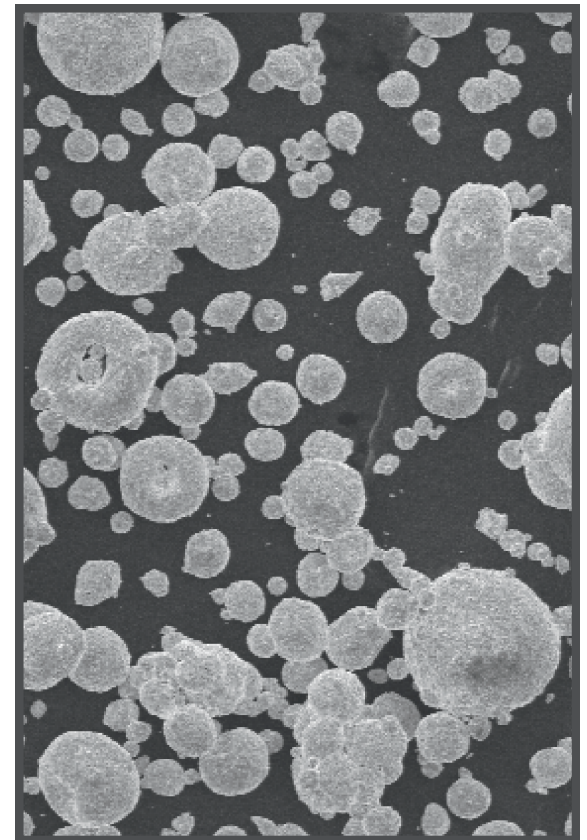
Key Benefits

- Excellent thermal insulation
- Improved phase stability at higher temperatures
- High resistance to thermal shock
- High resistance to corrosion & erosion extending part life
- Maintains mechanical strength and micro-structural integrity at elevated temperatures

Packaging & Storage

- 5lb moisture barrier containers
- Customized packaging available

OEM	Spec	Status
Pratt & Whitney Canada	CPW-673	Approved
Pratt & Whitney USA	PWA-1375	Approved
GE Aerospace	A50TF278 CI B&D	Similar, Not Approved
Honeywell	EMS 57750 Type I, CI 1 I	Similar, Not Approved
Chromalloy	BZ-003 Type 52	Similar, Not Approved



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