

Physical Properties

Product Code	PSD (Microtrac)	Phase (XRD)	Color
MC-TSP-20YSZ	-100+20 um	Monoclinic <1%	Cream

Typical Chemistry (Wt.%)

ZrO2	HfO2	Y2O3	SiO2	TiO2	Al2O3	U + TH	Fe2O3
78	1.5	20	<0.65	<0.1	0.07	<0.05	<0.05

Product Description

YSZ-20 is a high-purity, partially stabilized zirconia powder with 20wt% yttria. Engineered for thermal barrier coatings (TBCs) requiring excellent thermal shock resistance, low thermal conductivity, & superior phase stability at high temperatures.

Typical Applications

- Aerospace turbine blades and nozzles
- Power generation combustion hardware
- Automotive exhaust components

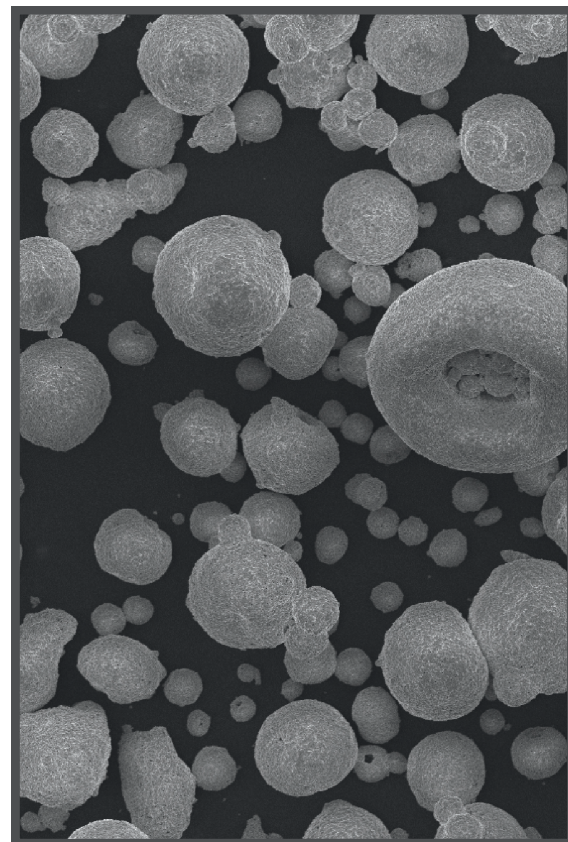
Key Benefits

- Superior thermal insulation (low k value)
- Excellent sintering resistance
- Good adhesion to MCrAlY bond coats
- Available in various PSDs for spray efficiency

Packaging & Storage

- 5lb moisture barrier containers
- Customized packaging available

OEM	Spec	Status
Pratt & Whitney Canada	CPW-388	Approved
Pratt & Whitney USA	PWA-36087	Similar, Not Approved
Rolls Royce PLC	MSRR 9507/37	Similar, Not Approved
GE Aerospace	A50TF204, CI A	Similar, Not Approved
Honeywell	M3966 Type I	Similar, Not Approved
Chromalloy	BZ-003 Type 51	Similar, Not Approved



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