

Physical Properties

Product Code	PSD (Microtrac)
MC-TSP-AlSi-Poly	-130+15 μ

Typical Chemistry (Wt.%)

Al	Si	Polyester	Fe	Cu	TAO
Balance	12	40	0.15	<0.1	<0.15

Product Description

The Al12Si alloy combined with 40 wt% polyester (aromatic polyester system) forms a widely used abradable coating powder, particularly in aerospace and automotive applications. This composite is engineered for clearance control in rotating machinery, such as gas turbines and turbochargers, where it serves as a sacrificial layer to minimize blade wear and enhance efficiency. MC-AlSi/Poly is typically applied using Atmospheric Plasma Spray processes.

Typical Applications

- Aerospace: Low Pressure compressors & turbine engine casings
- Automotive: Turbocharger components & other high speed rotating machinery
- Diesel and automotive engine components

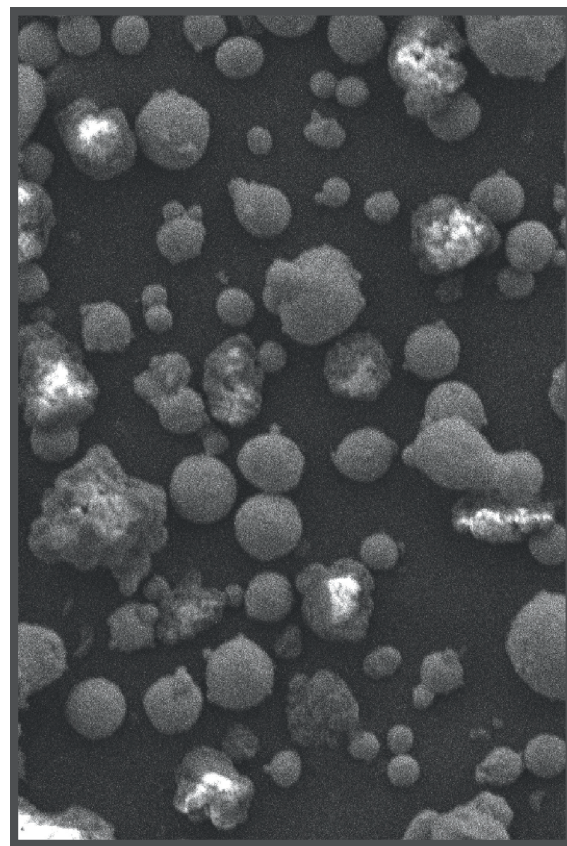
Performance Characteristics

- **Abradability:** The polyester phase ensures that the coating can be worn away by blade tips without causing blade damage.
- **Wear Resistance:** The coating exhibits sufficient wear resistance to maintain structural integrity during service.
- **Porosity:** Addition of porosity aids in accommodating thermal expansion and enhancing abradability.

Packaging & Storage

- 5lb moisture barrier containers
- Customized packaging available

OEM	Spec	Status
Pratt & Whitney Canada	CPW-517	Approved
Pratt & Whitney USA	PWA-1349	Approved
Rolls Royce USA	EMS 56731	Approved
Rolls Royce PLC	MSRR9507/15 RRMS40019	Similar, Not Approved
GE Aerospace	B50TF222, CI A&C	Similar, Not Approved
Honeywell	EMS 57735, Type 1	Similar, Not Approved
Chromalloy	BZ-003 Type 34	Similar, Not Approved



 (450) 676-8282
 montrealcarbide.com
**For more information
scan to visit our website**

