

File: 1.9.2.2P-1248T
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POWDER CHARACTERISTICS

1248T Cobalt - Molybdenum - Chromium - Silicon (T-800)

Summary:

This powder is made exclusively for thermal spraying. Spraying with TAFE 1248T produces dense, well bonded coatings which combine high temperature capability, excellent corrosion resistance, oxidation resistance and excellent fretting, galling and wear resistance. TAFE 1248T exhibits excellent tribological performance when it rubs against itself and other metals and alloys.

CAUTION: All TAFE powders are produced to exacting specifications and have been optimized for use in the JP-5000 HP/HVOF and PlazJet plasma spray processes. Use of other powders may not produce the properties listed in this Technical Data Bulletin.

Applications:

This material when used, with TAFE's JP-5000 HP/HVOF system, does not exhibit the thickness limitations of other thermal spray processes. Coating thicknesses of up to 0.100" (2.5 mm) are sprayed on a variety of applications, including:

- Gas turbine components for fretting wear
- Pump components
- Roller bearings
- Valve shafts
- Exhaust fan blades

Conforms to aircraft engine OEM specifications:

GE - B50TF190-S3, CL.A

RR - MSRR 9507/56 155.5

Consult your TAFE coatings application engineer for help in solving your specific coating requirements.

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Composition:

	<u>Weight %</u>
Molybdenum	28.5
Chromium	17.5
Silicon	3.4
Cobalt	Balance

Particle Size **-325 mesh/D**

Hazards:

Observe normal spraying practices. Respiratory and hearing protection is advised. For general guidelines see AWS Publication C2.1-73, and AWS TSS-85. Thermal spraying is a safe process when performed in accordance with proper safety measures.

For further information on HVOF coatings, equipment and supplies, as well as other thermal spray processes and custom automated systems, contact:

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