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POWDER CHARACTERISTICS **Tafa 1265F SUPER ALLOY 625**

Material Review:

The Tafa 1265F powder made exclusively for thermal spraying. Spraying with Tafa 1265F results in coatings which are dense, have a high bond strength and allow coating thicknesses greater than 0.325 inches (8.25 mm). The coating displays excellent corrosion resistance in a wide range of alkaline, acidic and aqueous salt environments. Tafa 1265F is oxidation resistant to 1600 °F (870 °C) and exhibits excellent machinability.

CAUTION: All Tafa 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 Tafa's JP-5000 HP/HVOF system, doesn't seem to have thickness limitations as with other thermal spray processes. Coating thickness of over 0.325 inches (8.25 mm) are sprayed on a variety of applications. Some of these applications include:

- Repair and restoration of Inconel™ 625 gas turbine components
- Digesters in paper industry
- Chemical processing equipment
- Pollution control equipment
- High temperature environments
- Corrosion hazard environments
- Chemical reactors

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

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Powder Characteristics:

Typical Composition	Nickel	<u>% Weight</u> 61
	Chrome	21
	Iron	3
	Mo, Nb, Other	Balance
<u>Particle Size</u>	-270/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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