

File: 1.9.2.2P-1269F
Issue: K10323
Original Issue

POWDER CHARACTERISTICS

TAFE® 1269F Nickel-Molybdenum-Chromium-Iron-Tungsten (Alloy C-276)

Summary:

TAFE 1269F powder is made exclusively for thermal spraying. TAFE 1269F has a chemical composition identical to Hastelloy® C-276. Thermal sprayed Alloy C-276 coatings are extremely dense and low in oxide content. Alloy C-276 is the most versatile corrosion resistant alloy available. Coatings of TAFE 1269F show outstanding resistance to a variety of severe environments including wet or dry chlorine and chloride-contaminated media, contaminated mineral acids at elevated temperatures, acetic anhydride, strong oxidizing atmospheres to 1900°F (1037°C), sea water and brine. Coatings of TAFE 1269F display good metal to metal wear and abrasion resistance and are well suited to applications in the chemical refining and manufacturing industries, such as pump casings and valve parts and general corrosion resistance.

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:

- Chemical processing
tank linings, pump and valve parts, fan and blower blades
- Industrial and municipal waste treatment
tank linings, pump and valve parts
- Pulp and paper production
digesters, boiler tubes, pump and valve parts, fan and blower blades
- Air pollution control
stack liners, dampers, scrubbers, stack-gas reheaters, fan blades and fan housings

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

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Typical Composition:

	<u>% Weight</u>
Molybdenum	16
Chromium	15
Iron	5
Tungsten	3
Nickel	Remainder

Particle Size -270/D

TAFA is committed to a continuing program of product improvement. Product specifications are subject to change without notice. TAFA warrants that the equipment and powder is furnished free of defects in material and workmanship. No other warranty is expressed or implied.

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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