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POWDER CHARACTERISTICS**TAFE® 1245F COBALT-CHROMIUM-NICKEL-TUNGSTEN (Alloy 31)****Summary:**

This powder is made exclusively for thermal spraying. Spraying with TAFE 1245F powder results in extremely dense, low oxide coatings. TAFE 1245F is a cobalt-base, chromium-nickel-tungsten alloy recommended for applications where resistance to abrasive grains, fretting and hard surfaces is required at temperatures to 1500°F (815°C). Use TAFE 1245F whenever high service temperatures preclude the use of tungsten and chromium carbides. It is also recommended for salvage and build-up applications on cobalt and cobalt alloy substrates.

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:

- Abrasive wear
- Forging tools
- Exhaust valves and seats
- Hot crushing rolls
- Worn or mis-machined parts
- Fuel rod mandrels
- Agitator bearings and paddles
- Scraper knives
- Fan shaft bearing/seals
- Paper rolls

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

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Typical Composition:

	<u>Weight %</u>
Cobalt	Remainder
Chromium	26
Nickel	11
Tungsten	8
Iron	2
Carbon	0.5

Particle Size

-270 mesh/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.

The information provided herein is believed to be accurate and reliable; however, results may vary with part preparation and operator technique. TAFA warrants only that the powders are free of defects in material and workmanship. No other warranty is expressed or implied.

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

TAFA Incorporated
146 Pembroke Road, Concord, NH 03301
Phone (603) 224-9585
Fax (603) 225-4342