Atomized Austenitic Stainless Steel Alloy Powder

Eutectic[®] 19300



- Two-step "Cold Process" powder
- Excellent resistance to atmospheric corrosion
- Precise particle sizing ensures coating consistency
- Good machinability



DESCRIPTION:

19300 is a water atomized austenitic alloy powder designed for use with the TeroDyn® System 2000. It is a Two-Step "Cold Process" powder which must be used in conjunction with a bond coat powder such as 50000 or 21031. Controlled composition is based on 316 stainless steel. Precise control of particle size and chemistry ensure that coatings will offer excellent resistance to atmospheric corrosion, a low coefficient of friction and good machinability.

TECHNICAL DATA:

Coating Properties:

Typical macro-hardness: Rockwell B Scale, 90 Typical density: 7.0 g/cc Thickness limit: 0.075 inch Max. service temperature: 1,000°F (538°C) Corrosion resistance: For immersion service a coating sealer is recommended; please contact Technical Services to discuss your application: 800-361-9439.

Powder Properties:

Hall flow rate: 30 seconds Bulk density: 2.7 g/cc Powder coverage: 0.042 lbs/ft² @ 0.001"

RECOMMENDED COATING & SPRAY PARAMETERS:

TD 2000	
Nozzle	RL 200
Module Adaptor	Yellow/Red
Oxygen	50 psi / 35 flow (FM-1 flowmeter)
Acetylene	12 psi / 75 flow (FM-1 flowmeter)
T-Valve Setting	18 clicks
Coating Rate	15.0 lbs/hr
Spray Distance	5-7 inches

PROCEDURE FOR USE:

Single Point Turning (**Do Not** use coolant unless coating is sealed) Tool: Carbide, ISO K01 Rake Angle: -5° Turning Speed: 100 SFPM Cross Feed: 0.002-0.007 inch/rev In Feed: roughing: 0.01-0.04 inch finishing: 0.002-0.005 inch

Grinding

(Do Not use coolant unless coating is sealed) Wheel Specification: 11 C 80 F 13 V Pmf (for 16" wheel) Wheel Speed: 5000 - 6000 RPM Cross Feed roughing: 75% of the wheel width per revolution of work piece finishing: 12.5% of the wheel width per revolution of workpiece. In Feed roughing: generally less than 0.005"; operator experience should guide this operation. finishing: should never exceed 0.001 to 0.002 inch. Coolant: Coating should be sealed so that coolant can be used.

TYPICAL APPLICATIONS:

- Sleeves
- Seal areas
- Armatures
- Packing glands
- Pistons
- Rolls

Valves

Shafts

• Journals

• Chemical process parts

End bells

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