

- Outstanding corrosion resistance, even at high temperatures
- Designed for the spray and fuse process
- High compressive strength
- Good abrasion resistance
- Excellent metal-on-metal wear resistance

PROCEDURE FOR USE

Cleaning: All areas to be coated must be free of dirt, oxides, oils, grease, etc. In order to insure bonding between the costing and substrate. Grit-blasting or rough machining may be used to prepare parts. Use industrial solvents for degreasing surface.

Preheating: In general preheating between 200-550°F is required. Care should be taken in preheating stainless steel and steels containing tungsten, molybdenum, aluminum or titanium as these materials will tend to form oxides on the surface, which could impair the quality of the bonding of the layer.

Fusion: Eutalloy is a spray and fuse process. Alternate spray and fuse process for each layer until deposit depth is achieved. Begin heating approximately 1 inch from the edge of the part and progress outwards. Begin again at starting point, and progress in the opposite direction.

Finish machining: The final, fused coating is a smooth, fine finish. However, if a specific surface finish or dimension is required, the deposit can be machined.

TECHNICAL DATA

,	Chemistry	Deposit density (g/cm³)	Thermal expansion coefficient	Typical Deposit Hardness (HV30)
	NiCrMoFeCuBSi	8.1	12.2 x 10-6	Minimum 550
				Nominal 620

RECOMMENDED COATING & SPRAY **PARAMETERS**

TD 2000

Nozzle: **RL 200**

RPA 3 @ 20 psi air RotoJet: Module Adaptor: Yellow/Red

50 psi / 35 flow (FM-1 flowmeter) Oxygen: Acetylene: 12 psi / 75 flow (FM-1 flowmeter)

T-Valve Setting: 14-16 clicks Coating Rate: 16.0 lb/hr Spray Distance: 7 to 9 inches

TD 3000

Eutectic® 53606

Eutectic 53606 is a self-fluxing, Nickel based, highly

alloyed powder for the spray and fuse process. 53606

is a unique product designed to give excellent corrosion and wear resistance in a variety of

corrosive environments, both reducing and

oxidizing. 53606 has similar properties in

high temperature environments. Particle

distribution is designed for use with TeroDyn® 2000, TeroDyn® 3000 and

CastoDyn® DS 8000 equipment.

Nozzle: **RL 200W**

RotoJet: RPA 3 @ 20 psi air

50 psi / 32 flow (3310 flowmeter) Oxygen: Acetylene: 12 psi / 48 flow (3310 flowmeter) Carrier Gas: (Ar or N2) @55 psi / 37 flow Terometer: 150 (Adjust to achieve spray rate)

15 lb/hr Coating Rate: 8 to 10 inches Spray Distance:

Deposit Effic.: 85%

CDS 8000

Flame setting: Ν Container Setting: 0-15 psi Air/Torch: Air/Extension: 15 psi 8 inches Spray Distance: Vc Rotation: 65 sfpm Advance in Rev.: 0.1 SSM 20 Module:

TYPICAL APPLICATIONS

Protective coating for components in environments of extreme abrasion and corrosion (both oxidizing and reducing) in waste incineration, pulp and paper, and chemical industries. Some examples are, boiler tubes, extruder screws, shafts, sleeves and mixer blades.

Observe normal spraying practices, respiratory protection and proper air flow pattern advised. For general spray practices, see AWS Publications AWS C2. 1-73, "Recommended Safe Practices for Thermal Spraying and AWS TSS-85, "Thermal Spraying, Practice, Theory and Application." Thermal spraying is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before starting spray operations.DO NOT operate your spraying equipment or use the spray material supplied, before you have thoroughly read the equipment instruction manual. Refer to the Eutectic website for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



