

Proxon 21071

Gas Atomized Aluminum - Bronze Alloy Powder Used In Both Plasma Spray And Combustion Spray Processes

Description

Proxon 21071 is a high-quality, gas-atomized aluminum-bronze alloy powder designed for use in both plasma spray and combustion spray processes. It is particularly well-suited for applications requiring machinable coatings with excellent corrosion resistance.

Product Details

High-Quality Machinable Coatings: Ideal for soft bearing applications. Repeatable, High-Integrity Coatings: Requires minimal operator technique.

Versatility: Can be used on steel and copper alloy parts to restore dimensions, provide self-lubricating surfaces, and offer excellent corrosion resistance in caustic solutions.

APPLICATIONS

Thickness Limit: 0.08 inch

Repair of Ship Screws

Coating of Metal Parts from Chemical Engineering

Protection of Shafts, Pistons, and Bearing Seats
Rebuilding of Worn Parts

Coating of Valve Seats Reclaiming Copper-Base Parts

Diesel Engine Cooler Element Parts Transmission
Gear Shafts and Piston Guides Shifter Forks

Worn Bearing Fits

PROCEDURE FOR USE

Preparation:

Clean and preheat the spray areas to 50 – 150°C.

Remove damaged material and round off edges.

Spraying:

Roughing can be done at 0.004 inch per revolution crossfeed with infeed of 0.010 to 0.030 inch.

Apply the powder in the preheated state to achieve the desired coating thickness. Maintain the spray layer temperature between 50°C and 200°C. Do not exceed a coating thickness of 2 mm.

Cooling: Allow the coating to cool in still air. Good machined finishes can be obtained using carbide tools with low turning speeds in the range of 50 to 80 surface feet per minute.

Finishing can be done at less than 0.004 inch per revolution crossfeed with infeed of less than 0.005 inch (turning speed can be increased somewhat for finishing). Coolants and applications involving corrosion should be avoided.

Note: please refer the parameters given in operation manual.

TECHNICAL DATA

Typical hardness: 60 HRB

Bond Strength : 3000 psi

Max. Service Temperature: 700°F (371°C)