



Gas Atomized, Cobalt-based  
HVOF Thermal Spray Powder

# **TeroJet 55006**



- Excellent resistance to metal to metal wear and galling
- May be used with some non-hvof application systems
- Hard, dense coatings with excellent corrosion resistance
- Good hardness at elevated temperatures

# TeroJet 55006

TeroJet 55006 is a gas atomized Cobalt alloy offering an outstanding combination of resistance to wear, corrosion and oxidation. The powder is specifically designed to be applied with the HVOF thermal spray process.

## TECHNICAL DATA

Typical Values	
Microhardness:	450 HV
Porosity:	< 3%
Oxide Content:	< 2%
Service Temperature:	1200°F Max (649°C)

## PROCEDURE FOR USE:

### Finishing Procedure

Coatings of TeroJet 55 006 may be finished by machining using carbide tools. Use flood coolant and do not overheat the coating. A finer finish is possible by rough machining using carbide tools followed by grinding. Follow the tool manufacturer's recommendations for speeds and feeds.

## TYPICAL APPLICATIONS

- Chemical process environment
- High temperature environments
- Ball and gate valves
- Pump shafts

When applying 55006 powder via the HVOF process, respiratory, hearing and eye protection is required. For general guidelines consult AWS Publication C2.1-73 and AWS T5S-85, "Recommended Safe Practices for Thermal Spraying and AWS T5S-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 web site for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



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