



A Tungsten Carbide,
Chromium Carbide, Nickel
HVOF Thermal Spray Powder

TeroJet 55573



- Excellent bond strength and deposit efficiency
- Outstanding oxidation and corrosion resistance on a wide variety of base metals
- Hard, dense coatings with an excellent surface finish after grinding
- May be used on some non-HVOF application systems

TeroJet 55573

TeroJet 55573 is an agglomerated and sintered HVOF powder containing 73% tungsten carbide, 20% chromium carbide and 7% nickel for applications that require resistance to oxidation at elevated temperatures.

Optimum coating results will be achieved using HVOF. However, 55573 powder may also be applied using high energy, low velocity combustion or plasma PTA systems.

Each lot of powder is subjected to extensive quality checks to insure a consistent particle size distribution and chemical composition. The powder is essentially spherical in shape. The HVOF coatings produced are hard, dense and will exhibit high bond strengths to a wide variety of base metals.

TECHNICAL DATA

Typical Values	
Microhardness, HV ₁₀₀	1000 - 1200 DPH
Surface Hardness, R15N:	90-92 (HRC 59-65 converted)
Bond Strength:	>10,000 psi (ASTM C633)
Porosity:	< 2 %
Typical Coating Density:	13 g/cc
Service Temperature:	1350°F / 730°C (Max)

Powder Properties:

Tungsten Carbide, Chromium Carbide, Nickel

PROCEDURE FOR USE:

Finishing Procedure

Coatings of TeroJet 55573 may be finished by grinding using diamond wheels or belts with flood coolant. Follow the tool manufacturer's recommendations for speeds and feeds.

TYPICAL APPLICATIONS

- Exhaust valves
- Gate valves
- Seals
- Hydraulic Cylinders
- Induced Draft Fan Blades
- Compressor Rods

When applying 55573 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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