# Fusible, Nickel-Chrome-Moly Alloy Powder

# TeroJet<sup>®</sup> 55 606 HVOF Powder



- High bond strength on a wide variety of base metals
- Best combination of abrasion and corrosion resistance, especially in chloride conditions
- May be used as-sprayed or thermally fused
- Hard, dense coatings with excellent corrosion resistance



# **DESCRIPTION:**

TeroJet 55 606 is a self-fluxing, Nickel based, highly alloyed powder. Water atomized coatings of 55 606 may be used in the as-sprayed condition or subsequently fused with a heating torch. The fusing operation will densify the coating and will produce metallurgical bonding to the base metal. For applications where it is desireable to use the coating in the as-sprayed HVOF is the preferred method of application. The coatings produced are hard, dense and will exhibit high bond strengths to a wide variety of base metals.

# **TECHNICAL DATA:**

#### **COATING PROPERTIES:**

Typical Hardness / R15N: 85-88: HRC 50-54 Bond Strength: > 5,000 psi Porosity: < 3% Oxides: < 2% Coating Density: 7.86 g/cc (as sprayed) 8.10 g/cc (fused) Service Temperature: 1200° F / 649° C (Max) As-Sprayed Roughness: < 250 micro-inches AA As-Ground Roughness: < 25 micro-inches AA As-Ground and Lapped: < 10 micro-inches AA Wear Resistance: 31 x 10-3 mm<sup>3</sup> Volume Loss (ASTM G65, Sch. A)

#### **POWDER PROPERTIES:**

Nominal Composition: Chromium Nickel Molybdenum Silicon Boron Copper

# **TYPICAL APPLICATIONS:**

A Ni-base alloy designed for HVOF delivery systems to provide protective coatings for components in environments of extreme abrasion and corrosion (both oxidizing and reducing) in waste incineration, pulp and paper, anc chemical industries. Boiler tubes, extruder screws, shafts, sleeves and mixer blades.

# **HEALTH & SAFETY:**

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 web site for Material Safety Data Sheet (MSDS) information.

DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH

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Eutectic Corporation N94 W14355 Garwin Mace Drive Menomonee Falls, WI 53051 USA P 800-558-8524 • F 262-255-5542 www.eutectic.com Eutectic Canada 428, rue Aime Vincent Vaudreuil-Dorion, Quebec J7V 5V5 Phone: (800) 361-9439 Fax: (514) 695-8793 www.eutectic-na.com Eutectic Mexico KM 36.5 Autopista Mexico-Quertaro 54730 Cautitlan-Izcalli Estado de Mexico, Mexico Phone: 011 (52) 55-5872-1111 e-mail: eutectic@eutectic.com.mx

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