



Pre-Alloyed, Self-Bonded Powder
which Produces Homogeneous Coatings
with Conventional Combustion or
Plasma Thermal Spray Equipment

ProXon®

19132



- Minimal operator technique needed for excellent coatings
- Separate bond coating material is not required
- May be finished by machining

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ProXon 19132 is a pre-alloyed, self-bonding powder which produces homogenous coatings with conventional combustion or plasma thermal spray equipment. The unique exothermic nature of the powder minimizes dependence on operator technique to obtain excellent quality coatings. A separate bond coat material is not required. 19132 powder is a unique nickel-molybdenum-iron alloy particularly well suited for applications involving acid corrosion. Additions of titanium help to produce a strong exothermic reaction and to ensure excellent resistance to abrasion and galling.

Coatings can be deposited more economically than other conventional self-bonding materials, with all spray systems, due to higher spray rates, higher deposit efficiencies and greater coverage per pound. Additionally, because of the unique manufacturing process used to produce ProXon 19132, nozzle build-up and loading, -frequently a problem with composite self-bonding powders-, is eliminated.

PROCEDURE FOR USE:

ProXon 19132 can be finished by machining or by grinding using a coarse grain, low-bond strength silicon carbide wheel. Good machined finishes can be obtained using carbide tools such as "D" shaped, K68 and low turning speeds in the range of 50 to 80 surface feet per minute.

Roughing can be done at 0.004 inch per revolution crossfeed with infeed of 0.010 to 0.030 inch. 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 should be avoided unless the coating is first treated with a sealer such as Rotogard or Sealtec-LT.

For more information and to determine which equipment is right for your coating needs, please contact Castolin Eutectic Technical Services.

TECHNICAL DATA

Typical Values	
Typical macrohardness:	30-36 HRC
Coating density:	8.1 g/cc
Coating weight:	0.042 (lb/ft ² @0.001")
Interconnected porosity:	5%
Bond strength:	5000 psi
Max service temperature:	1200°F (≈ 648°C)
Thickness limit:	0.060"
Apparent Density:	2.0 g/cc
Hall Flow:	42 sec/50g

TYPICAL APPLICATIONS

APPLICATIONS

- Impellers - Pump Shafts
- Pump Plungers - Shaft & Seal Surfaces
- Recovery Boiler Waterwall Tubes
- Machine Element Repair

INDUSTRY

- Utility
- Chemical
- Pulp & Paper
- General

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 T55-85, "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.



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