

- · Outstanding machinability
- Separate bond coat is not required
- High quality coatings with minimum operator technique dependence
- Excellent for general purpose build-up and for use on bearing fit applications

ProXon® 19122

Proxon 19122 is a machinable, one-step powder which consistently produces high quality coatings with minimum operator technique dependence. Designed for Eutectic TeroDyn® Systems 2000 and 3000, it can also be applied with RotoTec® Systems and conventional plasma nontransferred arc systems. A separate bond coat is not required.

An outstanding feature of 19122 is its machinability. Traditional, composite, onestep materials produce coatings which are difficult to machine, cause excessive tool wear and particle pull-out which leaves and irregular surface texture. Coatings produced with 19122, a multicomponent nickel base powder, can be machined to excellent finishes with a minimum of tool wear.

19122 is recommended for general purpose build-up and bearing fit applications, especially where surface finish is critical. Coatings exhibit good wear resistance and do not contain any free (unalloyed)

elements.

TECHNICAL DATA

| Typical Values | Combustion | Plasma |
|---------------------------------|-----------------------------|-----------|
| Macrohardness: | 85 HRB | 80 HRB |
| Microhardness: | 220 DPH | 200 DPH |
| Coating Density: | 6.9 g/cc | 7.2 g/cc |
| Coating Weight (lb/ft²@0.001"): | 0.037 | 0.035 |
| Interconnected porosity: | <5% | <3% |
| Bond Strength: | >4500 psi | >5000 psi |
| Maximum Service Temp: | 1200°F | |
| Thickness Limit: | >0.125" | |
| Melting Point: | 1950°-2500°F (1054°-1352°C) | |

PROCEDURE FOR USE:

Good machined finishes can be obtained using carbide tools such as D shape, 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 fi nishing).

Coolants and applications involving corrosion should be avoided unless the coating is first treated with a sealer such as RotoGuard® or SealTec®-LTTM.

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

TYPICAL APPLICATIONS

Utilities:

Pump shafts, bearing fits, pump pistons, impeller shafts.

General:

Electric motor shafts, end bells, grinder spindle bearings, drill press quills.

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 website for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.