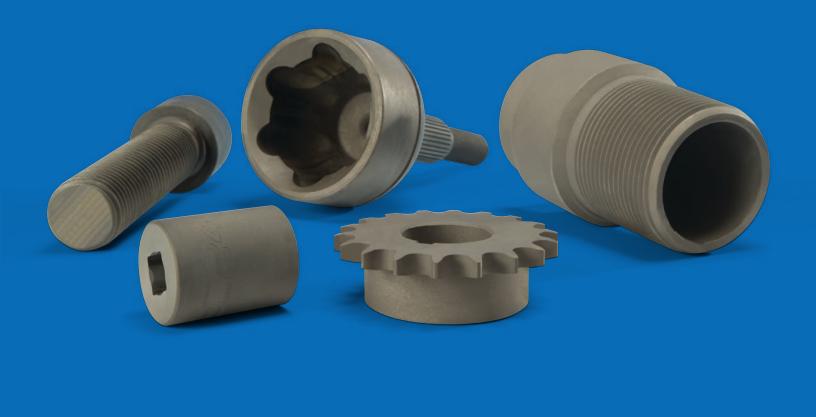


MicroLok® MZN



Zinc Phosphate Finish for Iron & Steel

MicroLok® MZN Zinc Phosphate Finish for Iron & Steel

Coatings for Iron and Steel - MicroLok® MZN

What is MicroLok® MZN? An Attractive & Protective Finish for Iron & Steel

The MicroLok® MZN process is a fine-grained zinc phosphating solution for iron and steel components. Applied at 120-160° F, the MicroLok MZN finish complies with MIL-DTL-16232G, Type Z, Classes 1, 2,3. When sealed with a rust preventive, the MicroLok MZN finish has excellent corrosion resistance and also provides anti-galling protection and break-in lubricity to critical working surfaces.

Safe & Easy to Operate. The MicroLok MZN solution operates at a safe 120-160° F, with no fumes or splattering. In addition, the working bath has a very mild pH of 4 to 5. Most cold blacks and zinc phosphates operate at pH 1-2, with significantly higher acid content.

Short Process. For most parts, the MicroLok MZN process requires only five steps and about 15 minutes. The MicroLok MZN bath is maintained by a simple titration procedure to monitor the concentration.

Durable Finish. High Heat Stability. The MicroLok MZN finish withstands up to 1400° F without degradation, making it suitable for high heat applications, such as brake components.

Easy to Install. Complete In-House Tank Line Systems are available at low cost and are supplied complete with training of your operators by factory personnel.

Ideal for tooling and machine components, piston/cylinder assemblies, rotors & calipers, oil-field equipment or any part that does not require a dark black finish, but does require robust corrosion protection, anti-galling properties or break-in lubricity, without a significant dimensional change.







MicroLok® MZN

MicroLok® MZN Five Step Process

For Most Parts, Five Easy Steps:

For machined parts, the MicroLok MZN process require just five steps and about 15-20 minutes:

- 1. CLEAN the parts for 5 minutes in Safe Scrub ST biodegradable cleaner: 150° F.
- 2. RINSE well in clean water: 20 seconds.
- 3. APPLY MicroLok MZN finish by immersing for 5-15 minutes at 120-160° F.
- 4. RINSE well in clean water: 20 seconds.
- 5. SEAL in Rust Preventive such as Dri-Touch® Amber IRP2: 1 minute. Allow to dry.

Parts that carry rust or heat treat scale should be descaled prior to coating with MicroLok MZN. Please consult with your Birchwood Technologies Representative for detailed guidance.







Ask Us About...

- Custom Tank Lines
 Automated Tank Lines
- 40 & 100 Gallon Tank Lines 5-Gallon Mini Kits
- Ion Exchange & Near-Zero Water Recycler Options

40 & 100 Gallon Process Lines

Completely pre-engineered, ready for fast setup and operation. Each system is shipped with complete operating instructions including test kit, owners manual and maintenance log.



The state of the s

5-Gallon Mini Kits

The ideal low cost system for those just-in-time jobs that must be out today. With a 5-Gallon Mini System you can produce great looking parts in just minutes.



Ion Exchange System Zero Discharge System

Purify and recycle the rinse waters, resulting in a "closed-loop" zero-discharge installation. The technology is available for all size systems, including 40-gallon, 100-gallon and larger capacity custom tank systems.

Free Sample Finishing to Evaluate Options: birchwoodtechnologies.com/sample/



Birchwood Laboratories, Inc. • 7900 Fuller Road • Eden Prairie, MN 55344 USA Tel: 952.937.7931 • FAX 952.937.7979

Email: info@birchwoodtechnologies.com • birchwoodtechnologies.com