

# MicroPoly®

## LUBRICANTS

**OEM  
APPLICATIONS  
FILLED BEARINGS**

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### CASE 1: Truck axle/king pin bearings

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**BEARING TYPE:** Tapered roller thrust bearings

**CONDITIONS:** Due to exposure to severe road conditions, dirt, water, and road salt contaminate the bearings. Warranty requirements on bearings were not being met. Bearings were very difficult to maintain.

**RESULTS:** Over 150,000 of these bearings have been filled with MicroPoly over an 8 year period, with no failures reported. Warranty requirements are being met.

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### CASE 2: New forming machine - machine tool builder

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**BEARING TYPE:** Tapered roller bearings

**CONDITIONS:** Manufacturer is expected to meet 3-year warranty. Customers were required to manually grease the bearings during the warranty period. This was not being done and the manufacturer was receiving warranty claims.

**RESULTS:** MicroPoly filled bearings are lasting through the required warranty period. No manual greasing is required. Warranty claims due to lack of lubrication have been eliminated.

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### CASE 3: Automation and machine tool design

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**BEARING TYPE:** Virtually every bearing type used is filled with MicroPoly

**CONDITIONS:** Inadequate time was allocated for manual maintenance of equipment. Contamination existed, such as coolant, metal chips, etc. Due to labor reductions in the plants and the difficulty in lubricating certain bearings, bearings were not being lubricated as required, minimizing bearing life.

**RESULTS:** MicroPoly is successfully being incorporated into the specifications of machine tool and automation design/construction, thus eliminating the need for manual greasing.

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### CASE 4: Abrasive machining – two machine tool builders

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**BEARING TYPE:** Ball bearings and inserts

**CONDITIONS:** Manufacturer was expected to meet warranty period with equipment, and to eliminate the need for manual greasing. Warranty period could not be met without manual greasing.

**RESULTS:** With MicroPoly filled bearings, manufacturer can now meet the warranty period without manual greasing.



**OEM  
APPLICATIONS  
FILLED BEARINGS**

**OEM  
APPLICATIONS  
SOLID PROFILES**

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**CASE 5: Automation builder**

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**BEARING TYPE:** Tapered roller bearings, ball bearings, and cam followers

**CONDITIONS:** Manufacturer was expected to meet extended warranty period with equipment, and to eliminate the need for manual greasing. On some applications, manufacturer was not able to meet warranty period without manual greasing.

**RESULTS:** With MicroPoly, manufacturer can now meet the warranty period without annual greasing.

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**CASE 6: Roll bearings – automation builder**

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**MICROPOLY:** Bronze bushings plugged with MicroPoly

**CONDITIONS:** Graphite plugs had been incorporated into bronze bushings, but were not compatible with the coolant. With graphite, the bushings had to wear out to plate out fresh graphite, and were failing prematurely. The warranty period could not be met.

**RESULTS:** With MicroPoly plugs, manufacturer can now meet the warranty period.

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**CASE 7: Automation builders (2)**

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**MICROPOLY:** Conveyor chain lubrication with MicroPoly block

**CONDITIONS:** Either no lubrication was used, with a short chain life experienced, or manual greasing was required. The alternative was to provide an expensive automatic lubrication system that tended to drip, creating housekeeping and safety problems.

**RESULTS:** By using MicroPoly, the housekeeping and safety problems were eliminated, with no manual greasing requirements.

