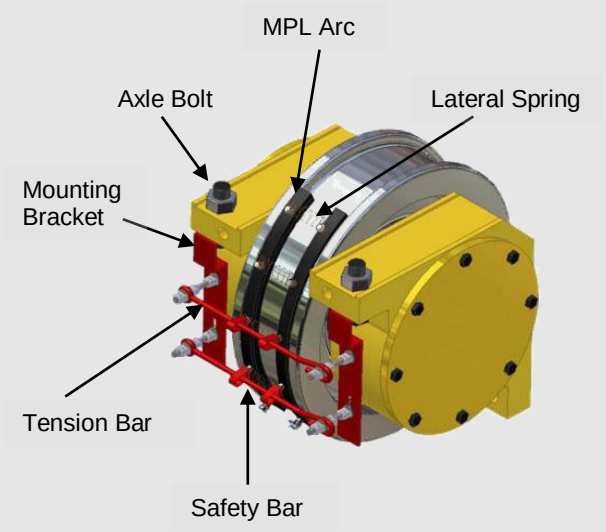
MicroPoly®
The solid idea for lubrication

MicroPoly® Lube Arcs

PhyMet's revolutionary MicroPoly Lube Arcs (MPL) dramatically reduces wear on overhead crane wheel flanges. This patented lubrication system consists of two MicroPoly arcs and a mounting system that makes use of existing axle bolts on each side of the crane. The mounting systems are custom made to precisely fit each crane.



Pat. No. 8,002,085

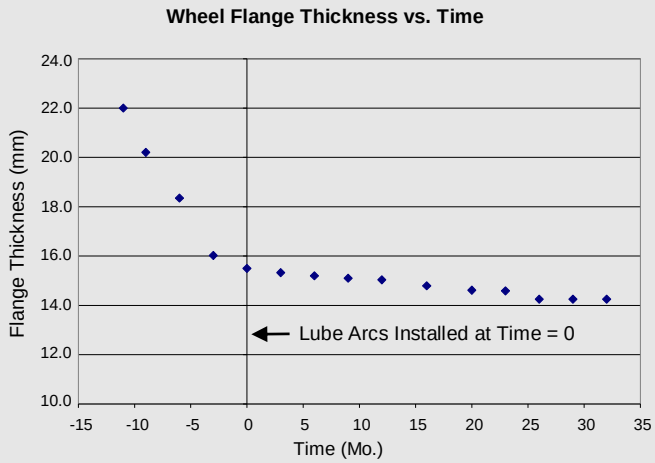
Case Study

The Problem: An automotive manufacturer in Liverpool, UK, was experiencing excessive flange wear and premature wheel failure.
Wheel life was less than 12 months.

The Solution: Before installing the MicroPoly lube arcs, the average wear rate was 0.712 mm/month. After installing the lube arc assembly, the wear rate was reduced to 0.034 mm/month. That represents a reduction of >90% for the wheel flange wear rate.

The customer reports that they will save over $350,000 over 10 years by installing the MicroPoly Lube Arcs on three cranes. This cost savings is based on purchasing fewer wheels over the life of the crane and does not include savings from the downtime involved in replacing the wheels. It also excludes additional savings that will be realized due to improved safety and housekeeping in the plant.

Case Study Flange Wear Data



www.micropoly.com

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MicroPoly® is a registered trademark of PhyMet, Inc.

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MicroPoly® Lube Arcs

MicroPoly, a proprietary product of PhyMet, Inc. is a solid lubricant that is a mixture of polymers, oils, and other additives that can be customized for your specific lubrication requirements. PhyMet's proprietary processing creates a solid lubricant with an oil-filled, porous structure. The oil migrates by capillary action to the MicroPoly surface and provides lubrication by transferring the oil to any surface that comes in contact with the MicroPoly. Since the MicroPoly also acts as a sponge, any excess oil is reabsorbed which prevents dripping.

Arc Assembly

MicroPoly Lube Arcs System
Installed on Demo

MicroPoly Lube Arcs:

- Can increase wheel life over 10 times
- Cut maintenance costs and downtime
- Custom made to fit your application
- Easy to install
- Patented technology only available from PhyMet, Inc.

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