MicroPoly® LUBRICANTS

CHAIN LUBRICATION SOLID PROFILES

CASE 1: Chain guide for "puller block" in conjunction with extruder

MICROPOLY: 1" x 2" x 12" chain lube block

CONDITIONS: Frictional heat on expensive profiled UHMW chain guide caused softening of guide and replacement of 40 blocks, 2 or 3 times per year.

RESULTS: Customer cut MicroPoly blocks into 6" lengths and machined sides down to provide two raised shoulders. MicroPoly has doubled the life of the UHMW. Change out on the guides had cost customer $500 per block. 40 blocks x 2 of MicroPoly changes per year saved $20,000.

CASE 2: Chain conveyor carrying 8,000-16,000 lb. pallets – furniture manufacturer

MICROPOLY: 1" x 2" x 18" conveyor chain lubrication block is used to lubricate #80 chain, 50 ft. long with a 24 ft. center distance between 8" sprockets

CONDITIONS: Chain was lubricated every month with molybdenum disulphide grease, which left marks on the wood boards as they moved along on the line. The excess grease dripped, creating safety hazards and housekeeping problems and contaminating the wood. The chain became noisy in about 6 weeks if not lubricated.

RESULTS: The MicroPoly lubrication blocks have been in use for 6 years without replacement. The blocks are mounted between two plates with spring pressure applied. MicroPoly has eliminated the problems they were having with contamination, housekeeping, noise, and safety.

CASE 3: Automation for car body carrier

MICROPOLY: MicroPoly Sprocket for #60 chain

CONDITIONS: Automation was designed without chain lubrication, causing problems with chain wear and unacceptable chain life.

RESULTS: MicroPoly sprockets operated successfully for 7 years with no noticeable wear on either the chain or the sprockets.

CASE 4: Sheet metal processing automation

MICROPOLY: MicroPoly Sprocket for double #40 chain

CONDITIONS: Conveyor chain was periodically manually lubricated with an oil sprayer. This caused the oil to drip, thus creating the need to contain the excess oil in pans. Because of the severe safety hazard, the steel pans had to be cleaned out before the equipment and the chain could be serviced.

RESULTS: MicroPoly Sprockets have eliminated the safety hazard and increased the chain life.

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MicroPoly
The solid idea for lubrication

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CASE 5: Re-bar and angle iron, open conveyor, return guide

MICROPOLY: 1” x 2” x 12” chain lube block

CONDITIONS: Some radiant heat, less than 200°F. Previous chain guide material did not hold up and had to be replaced 3 or 4 times per year.

RESULTS: MicroPoly chain lube blocks, placed at interval spacing, reduced replacement frequency of chain guide to once per year. This resulted in saving significant material replacement and labor costs.

CASE 6: Parts conveyor chain drive – automotive manufacturer

MICROPOLY: 1” x 2” x 20 ft. MicroPoly conveyor chain lubrication block

CONDITIONS: UHMW guide material supporting the chain wore out prematurely. This resulted in inconsistent parts feeding. The chain would disengage from sprockets when worn down, leading to frequent guide replacement.

RESULTS: With MicroPoly, inconsistent parts feeding and frequent guide replacement were eliminated. After 3 years of use, the blocks are still functioning.

CASE 7: Sludge lift chain – waste treatment facility

MICROPOLY: 1” x 2” x 8” conveyor chain lubrication block

CONDITIONS: Application is indoors with no heat. Chain life is very short, as the environment is wet and dirty.

RESULTS: Results are very good. All conveyor chains are now lubricated in this manner.

CASE 8: Conveyor chain lubrication – automation builder

MICROPOLY: 1” x 2” x 12” conveyor chain lubrication block

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

RESULTS: Housekeeping and safety problems were eliminated with no manual greasing requirements.

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