

9965 MONOLEC® HIGH TEMPERATURE OVEN CHAIN LUBRICANT

Johns Manville Corporation – Penbryn Plant, Berlin, NJ

Process oven chains • SIC 3296 Mineral Wool

CUSTOMER TESTIMONIAL

- ⇒ Reduction in amperage
- ⇒ Elimination of carbon buildup
- ⇒ Decrease in labor time
- ⇒ Reduced lubricant usage by 1,375 gallons in a one year period



CUSTOMER PROFILE

Johns Manville, a Berkshire Hathaway company, is a leading manufacturer and marketer of premium-quality building insulation, commercial roofing, roof insulation, and specialty products for commercial, industrial, and residential applications. Johns Manville has revolutionized the building insulation industry by introducing an entire line of formaldehyde-free fiberglass building insulation. This product is manufactured at the Penbryn facility located in Berlin, New Jersey.



APPLICATION

This plant uses a large oven to cure the rolled insulation. The product is then cut and packaged for delivery to customers worldwide. The oven is quite large (over 300 feet in length) and has multiple zones of high temperatures inside. The uncured product is pulled through the oven with two large roller chains and lifts.

AREA OF INTEREST

The chains were experiencing large amounts of carbon buildup due to the previous high temperature chain lubricant. High amperage draws were also a major area of concern for the plant. The amperage loads would increase when the chain became heavy with carbon build up.

LE SOLUTION

Tony Volkens Plant Engineer and Joe Galante Maintenance

Planner/Supervisor, met with local LE Consultant Chris Nowlen to discuss what could be done. Chris explained that LE products are engineered to reduce friction, lowering electricity consumption; provide excellent protection for the chains; and help eliminate carbon build up on the chains. Chris recommended LE's 9965 MONOLEC® High Temperature Oven Chain Lubricant. LE's 9965 is designed specifically to reduce operating temperatures, increase wear protection, and extend chain life. *This reduction in oven chain wear and tear, also effects the entire maintenance staff, by reducing the amount of man-hours needed to perform housekeeping on the oven.*

CUSTOMER COST SAVINGS

Prior to the conversion, while still using commercial grade synthetic oil, amperage readings were taken on the unit. Under full load, amperages and chain conditions were measured. The average amperage load was between 80 and 90% of full load and the chain was coated with a 2" thick coating of carbon. With LE Lubrication Consultant Chris

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300 Bailey Ave • Fort Worth, TX • Phone: 800-537-7683 817-916-3200
FAX: 800-228-1143 817-820-0027 • www.le-inc.com

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Nowlen's assistance, Johns Manville used LE products to remove the carbon build up on the chains. A full conversion to LE's 9965 was implemented and amperage loads and chain conditions were then recorded.

The oven amperage loading is now maintained between 50-60% of full load and the chains have zero carbon build up. Lubrication Engineers has been very active in helping Johns Manville obtain maximum performance from their oven while lowering operating costs. They have offered suggestions/solutions for their placement of the automatic spray lubricator and helped train and educate all of Johns Manville technicians and maintenance staff on cost effective usage of the proper lubricants.

In addition, lubricant usage has been reduced by 1375 gallons, resulting in a cost savings to Johns Manville of \$37,260.20 in a one year period!

Chris has also introduced Johns Manville to a total reliability concept, converting their lube room to a Tote-A-Lube, Oil Safe room (see pictures below).

Plant Engineer Tony Volkens states "I was very skeptical of LE products at first, however, the service and dedication shown by Chris Nowlen and the entire Lubrication Engineers staff has proven to me there is a difference. I am very confident in LE. That is why we are introducing other LE products here at this location. I believe they can help me."

OTHER PRODUCTS USED

- 1250 ALMASOL® High Temperature Lubricant
- 1275 ALMAPLEX® Industrial Lubricant
- 4046 QUINPLEX® Synthetic Food Grade Oil
- 6401 MONOLEC® R&O Compressor/Turbine Oil
- 6520 MONOLEC® Hydraulic Oil
- 6803 & 6806 MULTILEC® Industrial Oil
- 7500 MONOLEC® Power Fluid
- 8800 MONOLEC ULTRA® Engine Oil
- 9068 & 9150 MONOLEC® Synthetic Industrial Oil
- 9220 & 9460 MONOLEC® Synthetic Industrial Lubricant
- Tote-A-Lube stackable poly tanks
- Oil Safe® containers



Lubrication Engineers wishes to thank Tony Volkens Plant Engineer (left), Joe Galante Maintenance Planner, and the entire maintenance staff members for all their hard work and support and LE Lubrication Consultant Chris Nowlen (right) for information provided to prepare this report.

