



# APPLICATION CASE STUDY

## Gerdau Ameristeel - Steel mini-mill

### Lubricating the hot stuff



44 tons of scrap are melted every 57 minutes into molten steel in the melting pot. The table roller bearings the melting pot is seated on are lubricated with Molyslip **High Temperature Bearing Grease**.



As the steel is formed into roll-milled product and carried throughout the cooling process its roller bearings are lubricated with Molyslip **High Temperature Bearing Grease**.

#### Background

Gerdau Ameristeel operates 15 electric steel mills in North America. It is the fourth largest steel company and the second largest mini-mill steel producer in North America.

Converting scrap steel products into mill rolled steel is hot work. Every 57 minutes at Gerdau's Cambridge, Ontario plant, gigantic loaders and cranes deposit 44 tons of scrap steel in to the melting pot to start the conversion into roll-milled product. The scrap steel is melted at 3100° Fahrenheit until it becomes white hot liquid, then poured, cooled, rolled and converted into hot rolled steel bars for conversion into finished product.

#### Customer need

Ian Simpson, Maintenance Superintendent of the melt shop has over 30 years of experience in heavy industry in Wales and Canada. In a recent interview, Simpson said, "We operate 6.5 days a week, 52 weeks a year. With temperatures this hot, we have an extremely high load and high temperature environment. Reliability and efficiency is vital. If we have to close the line because of a failure, we impact the production of \$700,000 of product every 24 hours. We must have lubricants we can depend on..."

#### Molyslip solution

Molyslip High Temperature Bearing Grease

#### Customer response

For over 10 years Gerdau Ameristeel has used Molyslip molybdenum fortified High Temperature Bearing Grease products to lubricate all of their bearings and roller tables in their Cambridge and Whitby facilities.

Simpson said, "Gerdau is a long term user of Molyslip high performance grease. To meet the varying requirements and applications in the plant, we purchase cartridges, 35-pound pails 120-pound kegs and one-ton totes. I've been responsible for maintenance operations for 6 years and we have never had a lubrication failure causing a line stoppage. I depend on Molyslip..."

#### Product details

Molyslip High Temperature Bearing Grease is formulated for applications where high temperatures beyond the range of multi-purpose grease are encountered. It contains corrosion inhibitors and molybdenum disulfide for extreme pressures.

Molyslip High Temperature bearing grease is designed for:

- Working temperature conditions from -40°F to 325°F, with intermittent use up 550°F.
- Conveyor bearings in high heat applications
- Steel mill roller bearings
- Low & high speed journal bearings
- Electric motor bearings
- Wire rope dressing for high humidity or alkaline conditions

Molyslip is a leading supplier of specialty lubricants for industrial and automotive applications. Contact Molyslip today to ask about the product specifically designed for your application.

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