

**Molygraph MFG 220 Plus** reduced premature bearing failure, with a 50% reduction in grease consumption.



**Industry: Steel | Application: Cold Rolling**

**Client: Stainless Steel Strip Manufacturer | Location: West India**

## Overview

Bearings in cold rolling mills are subjected to harsh environmental conditions. Heavy loads, high temperature and dust and water ingress are a common phenomena. Using a conventional EP 2 grease can cause severe problems such as premature bearing failure, grease thinning and running out and frequent maintenance and downtimes which directly affect productivity.

A reputed manufacturer of stainless steel strips was faced with all of the above problems and asked Molygraph to provide a solution.

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## Challenge

- ⚙ Increase relubrication intervals
- ⚙ Elimination of premature bearing failures.

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## Solution

### MOLYGRAPH MFG 220 PLUS

- ⚙ High load and Anti-Wear properties.
- ⚙ Excellent resistance to thermal and oxidative degradation.
- ⚙ Superior resistance to water washout and spray-off.



## Benefits of Molygraph MFG 220 Plus

Technical Specifications	Competitor Product	Molygraph MFG 220 Plus	Test Method	Molygraph Advantage
Thickener type	Lithium	Lithium Complex	-	Superior thickener system providing all round performance
Four ball weld load	250	400	ASTM D-2596	Ability to withstand high loads
Water washout % loss	8	2	ASTM D-1264	Upto 4x increase in water resistance
Dropping Point (°C)	180	265	ASTM D-566	Higher dropping point shows a greater ability to withstand high temperatures

## Results

In total 8 bearings were lubricated with Molygraph MFG 220 Plus with an initial fill of 20 kg. MFG 220 Plus was tested against their current grease running side by side on two machines. Observations were as follows

- ⚙ After 30 days current grease had totally dried up and wear debris were clearly visible.
- ⚙ With continuous running for 30 days MFG 220 Plus was still in good condition and no wear debris were visible.

**Reduction in grease consumption by 50%**

**Total annual cost savings of INR 300,000 per annum considering total volume of grease used**



*We accelerate industrial productivity by providing the most efficient lubrication solution.*

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