

# Case Study: Fume Elimination Fan Split Pillow Block - GUARDIAN™



## INDUSTRY

Primary Metals - cold mill fume elimination fan assembly

## CUSTOMER

A primary metals manufacturer of electrical and stainless steel products.

## BACKGROUND

The split pillow block bearing used on the cold mill fume elimination fan assembly is failing prematurely from contamination. The current LER sealing system does not prevent contamination from entering the pillow block bearing assembly.

## CHALLENGES FACED

The split pillow block bearing is used on the fume elimination fan assembly. There is a mildly acidic mixture of lubricants and other oils escaping the fan housing. These contaminants are causing premature failure to the split pillow block bearing.

## OPERATING CONDITIONS

Speed – 1750 RPM

Temperature – 180°F (82°C)

Media - mildly acidic mixture of lubricants

Size – SAF 522 with 3.937" shaft diameter



## SOLUTION AND BENEFITS

The superior Garlock split GUARDIAN™ (29716-6292) split pillow block bearing isolator design allowed the mill to operate without premature bearing failure in the fume elimination fan application to optimize performance.

For more information, please visit:

<http://www.garlock.com>

## GARLOCK

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