

## CASE STUDY: CHAINGUARD 230 - Surface Treatment

Performance you can trust

### LOCATION

Spanish-based company that provides special surface treatment to bolts and nuts, especially for the wind and automotive industry.

### BACKGROUND

Ten years ago, Rocol approached the customer as they had issues with the chain lubrication in their ovens. The customer tested many different products without success.

### APPLICATION

The oven is used to having the surface treatment to the bolts and nuts.  
The oven temperature is 230 °C  
Set up temperature is 235 °C  
Chain temperature (middle section) is 180 °C  
Chain's hottest spot is 230 °C  
Customer is using an automatic lubrication system  
Oil consumption is 300-400lts/year  
Customer is using four ovens

### CHALLENGE

High-temperature chain oils can be challenging as a high-temperature lubricant should not generate coke as it blocks the lubricant penetration into the pins.

Also, it must avoid the formation of coke and varnish as it increases the chain weight, thus increasing the energy consumption. Additionally, the lubricant must be able to protect the chain against wear.

### THE Rocol SOLUTION

ROCOL CHAINGUARD 230:

Correct temperature range

Had low coke formation

Low evaporation

No coke formation after so many years

No migration

Product still moist

No noise

No visible wear

In the past, the chain was changed every year, and with Rocol after +4 years, the chain is still in excellent condition, see photo:

