



# ROCOL® CHAIN LUBRICATION GUIDE

Performance you can trust



Whatever the type of chain or conveyor in use, trouble free performance is vital. Chain failure can cause expensive downtime and reduction in productivity.



## Why lubricate?

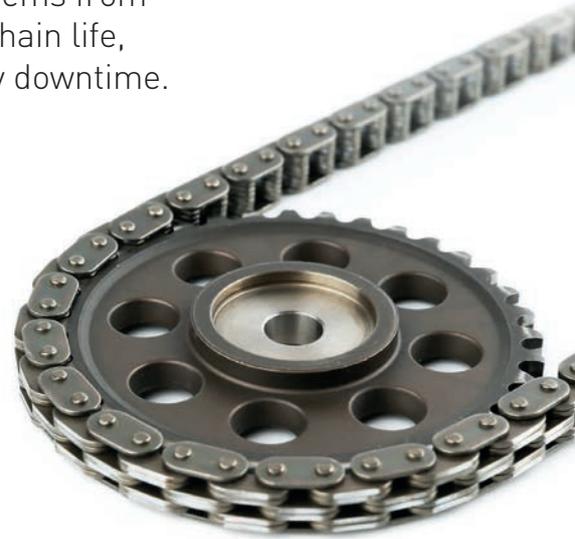
Correct lubrication will help protect costly chain and drive systems from excessive wear and corrosion damage, resulting in extended chain life, improvement in working environment and a reduction in costly downtime.

### Common effects of poor or no lubrication

- ▶ Noisy operation – squeaking and rattling chains
- ▶ Chain slippage and loss of alignment
- ▶ Excessive wear of chain and sprockets
- ▶ Corrosion

### Leading to

- ▶ Seizure and premature chain failure
- ▶ Costly downtime – loss of production
- ▶ Unnecessary expense on replacement chains and sprockets



## How can Rocol chain and conveyor lubricants help?

ROCOL chain and conveyor lubricants are designed to penetrate into links, pins and bushes, providing thorough, effective lubrication and corrosion protection.

### Our lubricants help...

- ▶ Increase chain life
- ▶ Reduce noise
- ▶ Extend relubrication intervals
- ▶ Reduce downtime

### Which in turn...

- ▶ Reduces maintenance costs
- ▶ Improves working environment
- ▶ Reduces lubricant usage
- ▶ Increases productivity

## How Rocol chain lubricants help with safe distancing in the workplace

Your operators and engineers will spend less time on routine maintenance tasks which helps maintain safe distancing protocols in the workplace.

- ▶ Typically last three times longer than conventional chain lubricants, extending relubrication periods
  - ▶ Less time spent walking the lines and reapplying lubricants.
- ▶ Outstanding performance, far superior to conventional lubricants.
  - ▶ This means your chains will last much longer – fewer unplanned repairs or breakdowns to attend to.
  - ▶ Resulting in fewer employees gathered in close proximity.
- ▶ Highly resistant to oxidation providing greatly extended lubrication intervals
  - ▶ Less time spent on production lines.

## Choosing the right product

To select the most suitable ROCOL chain lubricant simply identify the primary operating condition from those listed below and then consult the following chart to make product selection.

- ▶ Normal i.e. no extremes of temperature or condition
- ▶ High temperature (up to +280°C)
- ▶ Extra high temperature (up to +550°C)
- ▶ Dusty conditions



Primary operating condition	Aerosol or fluid	Method of application	Temperature range	ROCOL product
Normal conditions	Aerosol	Spray	Low: -50°C to +200°C	CHAIN & DRIVE Spray
		Spray	Medium: -30°C to +160°C	CHAINGUARD Hi-Load Spray
	Fluid	Manual / Auto	Medium: -15°C to +120°C	CHAIN & DRIVE Fluid
Medium-High temperature	Fluid	Manual / Auto	Medium: +10°C to +230°C	CHAINGUARD 230
	Fluid	Manual / Auto	High: +10°C to +280°C	CHAINGUARD 280
Extra high temperature	Fluid	Manual	Extra high: -10°C to +550°C	CHAINGUARD 550
Dusty conditions	Fluid	Manual	Medium: +10°C to +450°C	DRY MOLY Fluid / Spray

This chart is intended to assist product selection for most common types of applications. If in doubt phone ROCOL Technical Helpline or your ROCOL Sales Engineer.



# CHAIN & DRIVE Spray / Fluid

**CHAIN & DRIVE Spray / Fluid** is a high performance EP chain and conveyor lubricant

The unique formula of ROCOL CHAIN & DRIVE Spray / Fluid is designed to ensure maximum performance for penetration, lubrication and corrosion protection.

- ▶ Exhibits excellent penetration into the links and pins of the chain.
- ▶ Has a tenacious water resistant film that dewateres and protects all types of chains in wet or humid environments.
- ▶ Offers excellent corrosion protection on chains in hostile environments.
- ▶ The applied film of CHAIN & DRIVE Spray/Fluid has good adhesion, reducing dripping or throw-off

## CHAIN AND DRIVE Spray

Part Code	Size
22001	300ml



## CHAIN AND DRIVE Fluid

Part Code	Size
22306	5L
22309	20L



### Typical applications

for all types of chain and conveyor applications found throughout industry including those in wet, aggressive or other hostile environments.

Also suitable for 'O' ring chains.



**Temp range: Spray**  
-30°C to +150°C



**Temp range: Fluid**  
-15°C to +120°C



# CHAINGUARD Hi-Load Spray

**CHAINGUARD Hi-Load Spray** is a high performance chain and conveyor lubricant with MoS<sub>2</sub>.

Designed to ensure maximum performance for penetration, lubrication and corrosion protection.

- ▶ Rocol CHAINGUARD Hi-Load Spray has excellent penetration into the links and pins of the chain.
- ▶ It has a tenacious water resistant film that protects all types of chains in wet or humid environments.
- ▶ Rocol CHAINGUARD Hi-Load Spray offers excellent corrosion protection on chains in hostile environments. It can be applied to damp or wet chains due to its good dewatering performance.
- ▶ The applied film has good adhesion, reducing dripping or throw off.

## CHAINGUARD Hi-Load Spray

Part Code	Size
22141	300ml



### Typical industries

CHAINGUARD Hi-Load Spray is ideal for all types of chain and conveyor applications found throughout industry including those in heavy duty, aggressive or hostile environments.

### Typical applications

CHAINGUARD Hi-Load Spray was particularly developed for the lubrication of fork lift truck chains.



Temp range:  
-30°C to +180°C



# CHAINGUARD 230

**CHAINGUARD 230** is a high temperature, long life, EP chain and conveyor lubricant.

Ester based high temperature chain oil specifically formulated for the lubrication of all drive and transport chains and bearings running continuously at temperatures up to 230°C. The oil is formulated from a combination of synthetic esters and a special antioxidant package which ensures the highest performance.

- ▶ High thermal stability
- ▶ Low evaporation loss
- ▶ Minimal deposit formation.
- ▶ Excellent frictional properties give reduced power consumption on chain drive units.
- ▶ Excellent anti-wear properties at high temperature gives reduced wear and longer chain life.
- ▶ Low fuming provides a clean and safe working environment.
- ▶ Does not form hard carbon deposits.

## CHAINGUARD 230

Part Code	Size
22255	5L
22265	20L



### Typical applications

Textile stenters, drying machines, paint stoving ovens, bakery ovens and similar high temperature chain applications

### Notes

CHAINGUARD 230 (formerly CL200) is approved by Bruckner as a "Chain lubricant for horizontal and vertical return stenter chains and chain rail lubrication



**Temp range:**  
+10°C to +230°C



# CHAINGUARD 280

**CHAINGUARD 280** is a high temperature chain and conveyor lubricant.

Ester based high temperature chain oil specifically formulated for the lubrication of all drive and transport chains and bearings at temperatures up to 280°C. The oil is formulated from a combination of synthetic esters and a special antioxidant package which ensures the highest performance in terms of thermal stability, low evaporation loss and minimal deposit formation.

- ▶ Special antioxidant combination gives longer wet film life with lower deposit and varnish formation.
- ▶ Keeps oil-ways clear for more efficient lubrication.
- ▶ Excellent anti-wear properties at high temperature gives reduced wear and longer chain life.
- ▶ Penetrates into links and pins lubricating in the highest potential wear areas.
- ▶ Excellent frictional properties give reduced power consumption on chain drive units.
- ▶ Low evaporation and usage gives good economy in use.
- ▶ Low fuming provides a clean and safe working environment.

## CHAINGUARD 280

Part Code	Size
22235	5L
22236	20L



### Typical industries

CHAINGUARD 280 has been designed with an optimum viscosity which is ideal for automatic lubrication systems where small amounts are accurately applied to the lubrication point.

### Typical applications

Paint stoving ovens, bakery oven chains, conveyors, stenters etc.



**Temp range:**  
0°C to +280°C



# CHAINGUARD 550

**CHAINGUARD 550** is a high temperature graphited chain and conveyor lubricant.

Graphite based high temperature, dry film chain lubricant specifically formulated for the lubrication of oven chains subjected to extremes of temperature up to 550°C.

- ▶ Rocol CHAINGUARD 550 should be applied below 120°C to achieve full penetration of the graphited lubricating solids.
- ▶ The base fluid evaporates cleanly as the oven is gradually brought up to full operating temperature leaving no carbonised residues.
- ▶ The product does not attract dust/dirt when operating as a dry film above 180°C.
- ▶ The dry film coating reduces issues of potential contamination commonly associated with wet chain lubricants.
- ▶ Rocol CHAINGUARD 550 offers excellent EP and anti-wear properties at high temperature giving reduced wear and longer chain life.
- ▶ Low fuming provides a clean and safe working environment.

## Typical industries

CHAINGUARD 550 is ideal for the lubrication of conveyor chains in high temperature environments where the risk of product contamination by a wet lubricant cannot be tolerated. For example, bakery oven chains, or where temperatures are too high for wet lubricants to be used.

## Typical applications

Paint stoving ovens, bakery oven chains and other similar applications where extreme temperature and/or a dry film chain lubricant are required.



**Temp range:**  
-10°C to +550°C

## CHAINGUARD 550

Part Code	Size
22076	5L
22075	20L



# DRY MOLY Fluid/Spray

**DRY MOLY Fluid/Spray** is resin bonded dry film coating of molybdenum disulphide.

Resin bonded molybdenum disulphide film designed to lubricate sliding mechanisms such as plain bearings, pins, cams and slides where a wet lubricant cannot be tolerated.

- ▶ Dry film lubrication – resists pick-up of contaminants.
- ▶ Prevents galling, pick up and seizure.
- ▶ Resistant to high loads (up to 7,000 kg/cm<sup>2</sup>).
- ▶ Excellent wear resistance (high molybdenum disulphide content).

## DRY MOLY Spray

Part Code	Size
10025	400ml



## DRY MOLY Fluid

Part Code	Size
10205	5L



### Typical industries

DRY MOLY Fluid is ideal for use as an assembly lubricant for sliding mechanisms, plain bearings and other applications where a totally dry film lubricant is required.

DRY MOLY Spray can also be used as a dry film chain lubricant where wet films cannot be tolerated.



**Temp range:**  
-50°C to +450°C

