

MOLYSLIP®

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**A NEW REVOLUTION
IN CHAIN OILS
IS HERE...**



**NSF
REGISTERED**



**HIGH TEMPERATURE
CAPABILITY**



**PREMIUM
CHAIN OIL**

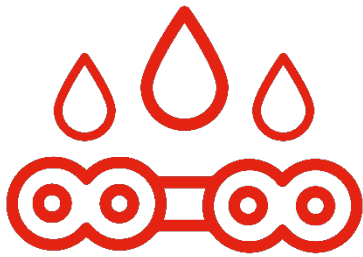
Molychain is a premium range of industrial chain oils for manufacturing industries. With an extensive range covering textiles, food and maintenance sectors, our comprehensive range is designed to meet any manufacturing requirement and excel where the competition fails.

Chain oils are specially designed solutions for the protection and lubrication of machinery working within extreme high temperature applications and operating conditions.



Molychain: The Range

Designed specifically to combat against thermo-oxidative degradation



Wet Film



Dry Film



Food Grade

Molychain CM; up to 125°C

Molychain CM-46

Mineral oil based high performance chain lubricant



Features and Benefits

- Appearance: Brown oil
- 46 cSt
- Corrosion protection: > 8 hours
- Temperature range capability: -20°C to 100°C

Packaging and Product Codes

Code	Pack
M431215	20 Ltr poly
M431269	200 Ltr drum

Molychain CM-220

Mineral oil based high performance chain lubricant



Features and Benefits

- Appearance: Adhesive brown oil
- 210 cSt
- Corrosion protection: > 24 hours
- Temperature range capability: -20°C to 150°C
- Higher load capabilities
- Highly adhesive and cohesive nature minimises drip and fling off – ideal for overhead chains or where potential contamination must be minimised

Packaging and Product Codes

Code	Pack
M431515	20 Ltr poly
M431569	200 Ltr drum

Molychain ET; up to 250°C

Molychain ET-100 & ET-260

Synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Synthetic ester and synthetic hydrocarbon
- ET-100: 105 cSt
- ET-260: 268 cSt
- Temperature range capability: -30°C to 250°C
- Maintains maximum fluidity as products age during use

Packaging and Product Codes

Code	Pack	Product
M431669	200 Ltr drum	ET-100
M431769	200 Ltr drum	ET-260

Molychain ET-100RZ

Synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Synthetic ester and synthetic hydrocarbon
- 103 cSt
- Temperature range capability: -30°C to 250°C
- Residue is drier when product ages to minimise particulate adhesion in dusty operating environments

Packaging and Product Codes

Code	Pack
M431869	200 Ltr drum

Molychain GT; up to 260°C

Molychain GT-50, GT-100 & GT-260 Synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Aromatic ester
- GT-50: 52 cSt
- GT-100: 105 cSt
- GT-260: 265 cSt
- Temperature range capability: -30°C to 260°C

Packaging and Product Codes

Pack	GT-50	GT-100	GT-260	GT-260RZ
5 Ltr poly	-	-	M430055	-
20 Ltr poly	M434015	M434215	M430015	-
200 Ltr drum	M434069	M434269	M430069	M434469

Molychain GT-260RZ Synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Aromatic ester
- 265 cSt
- Temperature range capability: -30°C to 260°C
- Residue is drier when product ages to minimise particulate adhesion in dusty operating environments

Packaging and Product Codes

Code	Pack
M431869	200 Ltr drum

Molychain HX; up to 270°C

Molychain HX-100 & HX-220

Advanced synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Mixed esters
- HX-100: 103 cSt
- HX-220: 220 cSt
- Very low volatility
- Temperature range capability: -30°C to 270°C

Packaging and Product Codes

Pack	HX-100	HX-220
5 Ltr poly	-	M435555
20 Ltr poly	M435015	M435515
200 Ltr drum	M435069	M435569

Molychain HX-125PC

Advanced synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Mixed esters
- 118 cSt
- Temperature range capability: -30°C to 270°C
- Designed for use on e-coat lines where exposure to water-based coatings / humidity is expected – unique additive system minimises the creation of oil spots that can result in coating imperfections

Packaging and Product Codes

Code	Pack
M435115	20 Ltr poly

Molychain KP; up to 290°C

Molychain KP-220

Premium synthetic high temperature chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow oil
- Base oil: Polyol ester
- 220 cSt
- Temperature range capability: -30°C to 290°C
- Superior thermal stability performance

Packaging and Product Codes

Code	Pack
M436055	5 Ltr drum
M436015	20 Ltr poly



Food Range Lubricants

OCL-F20

Food grade, proofer chain lubricant



Features and Benefits

- Appearance: Clear, pale-yellow fluid (220 cSt)
- Base oil: Semi-synthetic
- Suitable for use in wet and humid environments
- Corrosion protection: > 4 hours
- Temperature range capability: -10°C to 220°C
- Meets the requirements of 21 CFR 178.3570 (lubricants with incidental food contact)
- NSF H1 registered (registration number: 169342)

Packaging and Product Codes

Code	Pack
M432615	20 Ltr poly
M322669	200 Ltr drum

OCL-F25

Fully synthetic, food grade chain lubricant



Features and Benefits

- Appearance: Clear yellow fluid (220 cSt)
- Base oil: Fully synthetic
- Suitable for use in wet and humid environments
- Temperature range capability: -30°C to 240°C
- NSF H1 registered (registration number: 158158)

Packaging and Product Codes

Code	Pack
M432155	5 Ltr poly
M432120	20 Ltr poly
M432169	200 Ltr drum

OCL-F35

Food grade, premium high temperature chain lubricant



Features and Benefits

- Appearance: Clear yellow to orange fluid (220 cSt)
- Base oil: Fully synthetic
- Low evaporation rate extends relubrication intervals and prolongs wet film life
- Temperature range capability: -30°C to 300°C
- NSF H1 registered (registration number: 165254)

Packaging and Product Codes

Code	Pack
M432055	5 Ltr poly
M432020	20 Ltr poly
M432069	200 Ltr drum



Dry Film Lubricants

Molychain DF-600

Extreme temperature chain lubricant



Features and Benefits

- Appearance: Smooth grey/black fluid
- Base oil: Synthetic (PAG + graphite)
- 1600 – 2100 cP
- Solids contents: 15%
- Functions as fluid lubricant up to 180°C, at temperatures higher, the fully synthetic base fluid volatilises cleanly, avoiding carbon residue build up
- Temperature range capability: -30°C to 450°C (up to 600°C intermittently)

Packaging and Product Codes

Code	Pack
M437015	20 Ltr poly

OCL-DF20

Food grade, aqueous graphite dispersion



Features and Benefits

- Appearance: Black, slightly gelled fluid
- Solids contents: 20%
- Can be applied at temperatures up to 80°C. Once the water volatilises, a film of graphite is deposited which provides wear protection
- Meets the requirements of NSF H1 (registration number: 168079)
- Upper temperature capability: 450°C (up to 600°C intermittently)

Packaging and Product Codes

Code	Pack
M433020	20 kg pail

Molychain Industry Glossary

Word	Definition
Antioxidant	A substance that is added to or naturally present in the oil to inhibit the oxidation process
Anti-wear Additive	Additives solubilised within lubricants to prevent metal-to-metal contact between components
Auto-ignition	The lowest temperature at which it spontaneously ignites in a normal atmosphere without an external source of ignition
Carbonisation	Refers to the process where a lubricant (typically under high temperatures and pressure), undergoes thermal degradation, leading to the formation of solid carbon residues
Detergency	Refers to a lubricants ability to keep surfaces/equipment components clean by suspending and dispersing contaminants - such as oxidation products and sludge within the lubricant itself
Ester	An ester is a type of organic compound formed by the reaction between an alcohol and an acid
Fire Point	The lowest temperature at which a lubricant produces enough vapours to sustain continuous combustion when exposed to an open flame (will be higher than the flash point)
Flash Point	Lowest temperature where vapours can ignite but not sustain combustion. Ignition is temporary, and does not sustain itself after the ignition source is removed
HP-DSC	High Pressure Differential Scanning Calorimetry – a thermal analysis technique used to measure heat flow associated with phase transitions/chemical reactions etc. Commonly used to assess oxidation stability
Mineral Oil	A byproduct of the petroleum refining process
Oil Evaporation	Transition of an oil in a liquid state to a vapour state which disperses into the atmosphere and causes oil mass loss. Influenced by several factors including temperature, oil composition and surface area exposure of oil
Oxidation	The chemical reaction between oil and oxygen, leading to the degradation of the oil's quality
Oxidative Weight Loss	The reduction in mass of oil due to oxidative reactions. These reactions occur when the oil is exposed to oxygen over time, leading to the breakdown of the oil's chemical components. Influenced by several factors including exposure to oxygen, temperature, oil composition and presence of metals/catalysts

PAG	A group 5, synthetic oil – Polyalkylene Glycol
Polymerisation	Refers to when the chemical structure of a lubricant breaks down and reforms into long polymer chains - leading to undesirable changes in the lubricant's physical and chemical properties
Synthetic Oil	Originate from chemically engineered base oils rather than crude oil. Synthesised through controlled chemical processes that allow for more precise molecular composition, which provides superior performance characteristics compared to conventional mineral oils
TGA	Thermogravimetric Analysis – a thermal analysis technique used to measure the change in a material's mass as a function of temperature or time. It provides information about the thermal stability, composition, and degradation characteristics
Oil Varnishing	Refers to the formation of a thick, sticky film or coating (varnish) on the surfaces of machinery or metal components due to the thermal degradation and oxidation of oils