

A range of fully synthetic chain oils for industrial ovens

## Introduction

The Metachain™ products are a range of fully synthetic high temperature chain oils. The range has been formulated using the latest synthetic base oils, anti-oxidants and anti-wear additives to meet the demands of specific chain applications for use in ovens where conventional oils cannot function properly. The industries we serve are:

- bakery ovens
- car plant paint ovens,
- ceramic and porcelain curing ovens,
- glass-wool roof insulation ovens
- plasterboard ovens,
- plastic film stretching ovens,
- textile stenters ovens
- wood based panel ovens

## Features & Benefits

- Highly resistant to carbonisation which leads to a reduction in the amount of oil applied over a defined period
- Excellent resistance to carbonisation will also lead to a lower level of evaporation and carbon build-up on the chain system and internal surfaces of the oven
- A unique combination of anti-wear additives will reduce the friction and metal-to-metal contact on the chain system which will lead to longer chain life and improved consumption of the chain oil.

The traditional challenges faced by any operator of a high temperature oven are that the oil that lubricates the chain will gradually carbonise and lose its lubrication properties. Metachain™ products use the latest synthetic base oils and additives and have been formulated to achieve a balance between the enhanced technological performance provided by the product and the cost to our end users.

## Global specialists in high-performance lubricants

### Metalube Arabia

Tel: +971 50 6406574  
Email: sales@metalube.ae  
www.metalube.ae

### Metalube Brazil

Tel: + 55 11 96188-7088  
Email: vendas@metalube.com.br  
www.metalube.com.br

### Metalube China

Tel: + 86-(0)21-5489 2146  
Email: sales@metalube.cn  
www.metalube.cn

### Metalube India

Tel: + 91 22 2545 9338  
Email: sales@metalube.in  
www.metalube.in

### Metalube UK

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### Metachain™ HT Range

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The Metachain™ HT range is designed to offer ultra-high performance, high temperature chain oils to industrial users with oven chains in a multitude of different market sectors. This product range offers synthetic ester based technology and world-leading anti-oxidant technology which provides extended lubrication intervals with minimal levels of carbon deposits.

#### Metachain™ HT

Metachain™ HT is suitable for general purpose chain applications in a variety of ovens and is formulated using a combination of two ester grades along with the latest anti-oxidants and anti-wear additives to enhance the life of the oil. Capable of operating up to 260°C.

#### Metachain™ HTS

Metachain™ HTS is designed to perform to an extremely high standard. This product contains a different variation of esters to the HT grade. The enhanced performance from the ester package ensures that the chain oil achieves a much longer stability at elevated temperatures than more conventionally formulated high temperature oils. Capable of operating up to 280°C.

#### Metachain™ HTS-X

Metachain™ HTS-X is our highest performing high temperature chain oil. This product is formulated on a single, ultra high performance ester, and is complimented with a world-class additive package to enhance the oxidation stability and anti-wear properties. Capable of operating up to 300°C.

### Metachain™ PF Range

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This product range is specifically designed to lubricate the chain systems of plastic film stretching machines manufactured by Bruckner Maschinenbau GmbH of Germany.

#### Metachain™ PF-11

Designed for operation on all sliding chain FOK type machines up to and including FOK4.4.4

#### Metachain™ PF-13

Design for operation on roller chain FOK 5 type machines.

#### Metachain™ PF-22

Designed for use on all sliding chain FOK type machines up to and including FOK4.4.6

#### Metachain™ PF-34

Designed for use on all sliding chain FOK type machines up to and including FOK4.4.8

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### Metachain™ TS Range

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Textile stenters require an effective high temperature chain oil which is capable of providing the required level of lubrication at a cost effective rate. The Metachain™ TS range provides World-beating performance combined with value added benefits which proves it to provide a long term benefits to the textile industry.

#### Metachain™ TS-300

Formulated to meet the unique demands of the textile industry for use on high temperature stenter chain ovens this product is designed to operate at temperatures of 200°C. The combination of additives in our unique formulation will mean lower consumption of oil when compared against conventional high temperature oils.

#### Metachain™ TS-500

A high performance version of the TS-300 with an enhanced ester and anti-oxidant package to provide longer life and reduced consumption from the oil.

### Metachain™ CB Range

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This product range is specifically designed for use on the oven chains of all wood based panel board presses manufactured by Dieffenbacher GmbH and Sempelkamp GmbH of Germany.

Metachain™ CB-100 and CB-200 are high performance, fully synthetic lubricants specifically designed to lubricate and protect the belt, roller and chain systems of continuous composite board presses.

#### Metachain™ CB-100

This product has been optimised for chain, belt and roller lubrication on Dieffenbacher and Sempelkamp continuous panel presses

#### Metachain™ CB-200

This product is a complimentary product to the CB-100. The CB-200 is a lower viscosity product designed to offer improved wetting and penetration of roller rods.

### Metachain™ GW Range

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The Metachain™ GW range has been developed for use on oven chains used to manufacture insulation wool. The manufacturing process for this technology means that the chains used to transport the insulation material are often required to operate up to 300°C.

#### Metachain™ GW410

Optimised to perform at elevated temperatures common in the insulation industry. GW450 is designed to reduce carbonisation of the oil and improve clean-down of the chain which in turn improves productivity of the line.

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### Metachain™ FG Range

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This high temperature chain oil is approved to NSF H1 classification and uses ester-based technology to achieve extremely high thermal stability. This will mean low carbon deposits on the chain and long intervals between lubrication. Ideally suited to applications where the temperature is approaching 300°C. Ovens where products like tacos and nan-bread would be ideally suited to the FG range.

#### Metachain™ FG30

NSF H1 classification product with excellent thermal stability.

### Pack sizes

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Metachain™ products are available in 205 litre drums.

The product information in this publication is based on knowledge and experience at the time of printing. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

Issue date: 22/09/15

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