



# PINIROL

PiniRol is enviromentally sound **hot rolling oil**. It is natural and biodegradable product derived from tall oil.

## Properties of PiniRol:

- The polar properties of the oil make it to adhere and lubricate both the roll and the strip.
- Reduces maintenance costs of the rolls.
- Keeps roll surface in better condition for longer run.
- Prevents oxidation of the rolls.
- Prevents abrasive wearing of the rolls.
- High extreme pressure properties.
- Keeps lubrication film active.
- Rolling force reduction 5-16 %, even 25-35 % compared to non-lubrication.
- TÜV-tested, biodegradable and non-toxic.

## Safe in use:

PiniRol is ecologically safe and user friendly hot rolling oil.

Safety data sheet is available on request.

## Use of PiniRol:

PiniRol can be used for hot rolling of steel, copper, aluminium, etc.

Please, avoid tanks or vessels painted inside with alkyd paints.

## Technical properties:

Viscosity mm <sup>2</sup> /s 40 °C	>32
Viscosity mm <sup>2</sup> /s 100 °C	13
Viscosity index	240
Flash point °C	296
Pour point °C	< -36
Density g/cm <sup>3</sup> 20 °C	0,93

**Pinifer can supply complete gap lubrication systems (desing, equipment, commissioning, training).**

# PINIFER

Oy Pinifer Ltd • Kuormatie 2 • FI-91900 Liminka

Tel. +358 8 564 2700 • Fax +358 8 564 2710

info@pinifer.com • www.pinifer.com