

## PFEIFER Relubricant for wire ropes

### Power for your wire ropes

*Improved lubrication  
→ Less friction, higher efficiency,  
elongated lifetime*

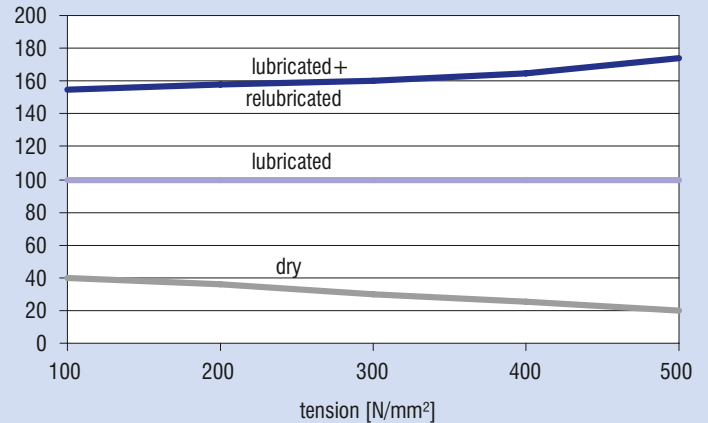
During operation the grease is consumed and gets lost and washed away, especially in the outer stands. Thereby the friction between the single rope elements increase and lead to a higher abrasion.

### Your benefits by relubrication

- ⊕ Reduction of friction between the rope elements
- ⊕ Protection against corrosion – Prevention of ingress of water into the wire rope
- ⊕ Reduction of internal wear on galvanized ropes after the galvanization has been rubbed off



Bending cycles [%]



year	not relubricated			relubricated			
	rope costs	rope change costs	total	rope costs	rope change costs	lubricant costs	total
1	1 000 EUR	600 EUR	1 600 EUR	1 000 EUR	600 EUR		1 600 EUR
2						50 EUR	50 EUR
3						50 EUR	50 EUR
4						50 EUR	50 EUR
5	1 000 EUR	600 EUR	1 600 EUR			50 EUR	50 EUR
6						50 EUR	50 EUR
7				1 000 EUR	600 EUR		1 600 EUR
8						50 EUR	50 EUR
9	1 000 EUR	600 EUR	1 600 EUR			50 EUR	50 EUR
10						50 EUR	50 EUR
11						50 EUR	50 EUR
12						50 EUR	50 EUR
<b>total</b>			<b>4 800 EUR</b>				<b>3 700 EUR</b>

### So much money could be saved by relubrication:

Average hoist rope price: **1 100 EUR**

Estimated average lifetime: **4 years**

Proposed elongation of lifetime through relubrication: **2 years**

*Total savings  
1100 EUR*

## Lubrication time

- Dependent on external influences like climate, rope usage, dirt etc.
- The condition of the rope has to be checked regularly

## Amount of grease

- Dependent upon the rope construction and diameter
- Principle: less grease in shorter periods
- Formula for lubricant requirement per rope:

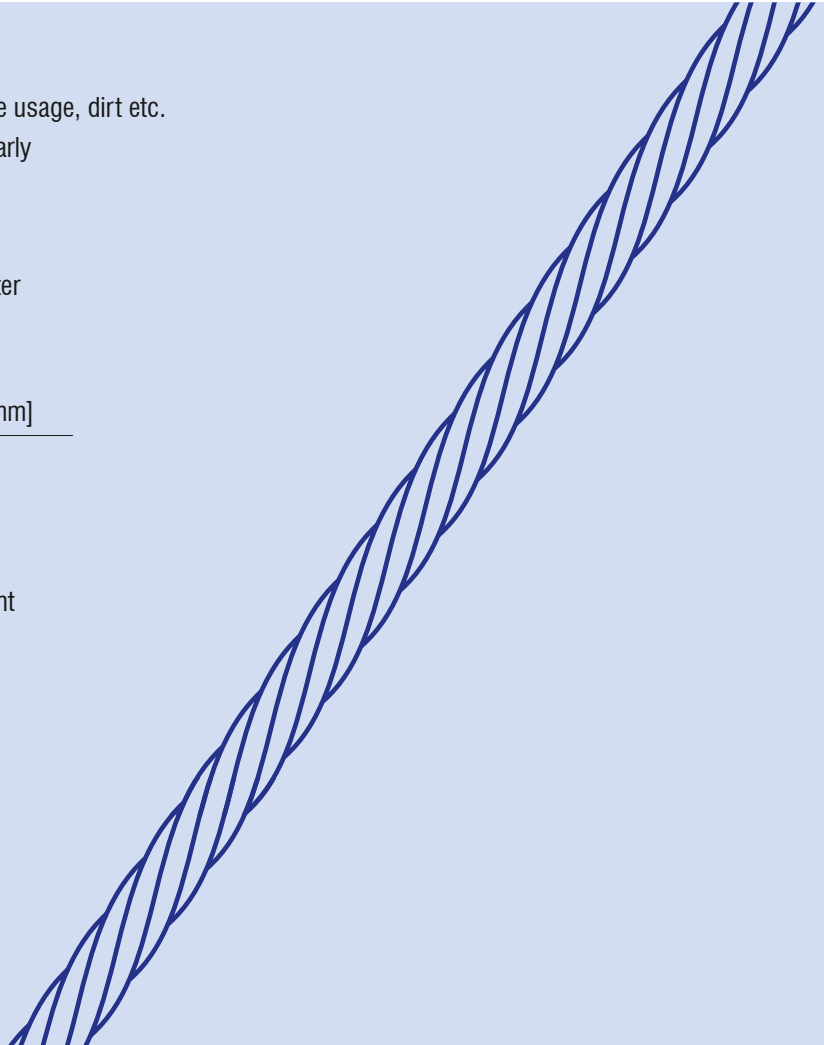
$$\text{amount [l]} = \frac{0.2 \text{ [l]} \cdot \text{rope length [m]} \cdot \text{rope diameter [mm]}}{100 \text{ [m]} \cdot 10 \text{ [mm]}}$$

## Drying time

- Consideration of the evaporation time of the solvent
- Dependent on the ambient temperature

## Selection of lubricant

- Compatibility with:
  - Original lubricants
  - Material of sheave blocks
- Specifications:
  - Penetration
  - Applicability
  - Flame point
  - Viscosity



## Therefore, we recommend ...



### PFEIFER Relubricant for wire ropes

Type	Size	Part-Number
RL-S	12 x 600 ml spray can	245066
RL-B	10l bucket	212406
RL-B	30l bucket	212405



If you need more information,  
please call:

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