

### Approvals and conformities

BELLCORE	Requirements for Cable Placing Lubricants / Technical Audit Report AU-NWT-000077
NEXANS	Recommended After Compatibility Testing With Nexan Cable Jacket Material

All TECHLUBE lubricants share similar chemistries and characteristics

### TECHLUBE PHD was also formally known as TECHLUBE FO

**TECHLUBE PHD** pourable cable lubricant is a water-based underground cable installation lubricant for medium weight and lighter cable pulling and for fibre optic cable pulling operations. Its string & cling consistency adheres perfectly to cables in wet weather and has a resistance to wash off in water filled ducts. Techlube PHD is a non-flammable, non-toxic and substantially biodegradable water-based cable lubricant suitable for use with electrical, telecommunication and fibre optic cables.

- Easy to apply water-based, high performance cable lubricant
- Superior friction reduction and strong adhesion to cable/duct wall
- Regular pulling tension and reduced risk of cable damage during the cable installation
- Dries slowly to form a thin friction reducing film which retains its slip
- Allows additional cable installs or removals in same duct at a later date
- Continues to lubricate the cable jacket in flooded conditions
- Temperature stability
- Does not contain salt, detergent or grease which can degrade cable jackets and cause hot spots
- No threat to the environment
- Cable jacket materials tested and passed to specification Insulated Conductor Committee Guide P1210/D10:
  - High Density Polyethylene
  - Linear Low Density Polyethylene
  - Natural Rubber
  - Chlorinated Polyethylene
  - Hypalon
  - Ethylene Propylene Rubber
  - Cross Linked Polyethylene
  - Poly-Vinyl Chloride
  - Neoprene

## USES

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**TECHLUBE PHD** is a clean, slow-drying, water-based gel lubricant especially formulated to provide the greatest friction reduction possible in cable placing operations.

- Underground electrical utility, telecommunications and fibre optic cable placements
- Medium weight and lighter cable pulls
- Copper and lightweight telecommunication cable installations
- Sub-duct installations
- Duct pre-lubrication

## DIRECTIONS FOR USE

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**TECHLUBE PHD**'s clinging consistency enables easy application to the cable by hand, with applicator device, or lubricant spreader. Where large quantities of lubricant are needed, **TECHLUBE PHD** is pumpable.

Any attempt to quantify exactly the amount of lubricant that is needed on any individual installation will fall short of being accurate. In general, experience has revealed that some valid assumptions can be made. Formulas below have been found to be normally acceptable. However, there are field conditions which may require more / less lubricant than the formulas provide. Knowledge of specific local conditions and experience has proven the best judge in these cases.

1. For plastic conduit (PVC, ABS, Polyethylene) use the following:

$$Q = 0.0080 \times L \times D$$

2. For multiple concrete, clay tile, fibre cement, fibre filled and wood conduit use the following:

$$Q = 0.0120 \times L \times D$$

Where *Q* = Amount of Techlube PHD needed in litres

Where *L* = The total length of the pull in metres

Where *D* = The inside diameter of the individual conduit in centimetres.

## TECHNICAL CHARACTERISTICS

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Appearance .....	Viscous liquid
Specific gravity .....	1.0
pH .....	Neutral
Viscosity .....	ISO 2555 (at 25°C) 2000-3500 cPs

## **PRECAUTIONS FOR USE AND STORAGE**

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No reportable hazardous substances. Product has extremely low order of acute oral toxicity, but ingestion of large amounts may cause nausea and gastrointestinal irritation.

Storage Temperature: Ambient. Keep containers closed when not in use.

Based upon data for a similar substance or estimated data, no acute toxicity to aquatic organisms is expected. Care should be taken in any case to ensure compliance with EU, national and local regulations. Combination with other materials may well indicate another route of disposal.

For more information regarding the danger of the product, please consult the product safety data sheet according to local regulation.

For professional use only.

**This technical data sheet replaces and cancels the previous one.**

The above details have been compiled to the best of our knowledge. They have, however, an indicative value only and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by SOCOMORE. All data is subject to change as Socomore deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Please check your local legislation applicable to the use of this product. Should you need any further information please contact us.