

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 the Same Chemistry and Main Characteristics.

Techlube PHD pourable cable lubricant is an underground cable installation lubricant for medium weight and lighter 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 biodegradable water-based cable lubricant suitable for use with electrical and telecommunication 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
 - High and low temperature stability
 - Does not contain salt, detergent or grease which can degrade cable jackets and cause hot spots
 - No threat to environment, spillages can be flushed to drain
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- 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

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 and telecommunications cable installations
- Medium weight and lighter cable pulls
- Sub-duct installations
- Duct pre-lubrication

DIRECTIONS FOR USE

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:

$$Q = 0.0064 \times L \times D$$

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

$$Q = 0.0098 \times L \times D$$

Where Q = Amount of Techlube HD 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

Appearance	Cloudy pourable stringy green gel
Specific gravity	1.0
pH	Neutral
Viscosity	ISO 3104 (at 25°C) 2000-3800 cPs

PRECAUTIONS FOR USE AND STORAGE

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.

This product will biodegrade readily. 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.

This technical data sheet replaces and cancels the previous one.

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