

## STANDARD ACCESSORIES

# HYDRALUBE® F-200i

- New technology creates a high performance, water-based gel lubricant for increased friction reduction
- Formulated for many difficult applications for placement of 600 V and higher voltage-rated cables, conventional copper cables, large cables and long difficult pulls
- Will not be displaced by cables and compatible with all types of cable jackets
- Can be pumped or installed using gel pak bags; slow drying, leaving a lubricating, non-adhesive film
- Safe to use: non-toxic, non-corrosive, non-flammable, and non-staining
- Available in a wide range of package sizes, including bulk totes
- Designed to meet or exceed all cable pulling requirements with respect to viscosity, cling, drag, wetting, operational temperature range and reduction of pulling tension. Lubricant application systems are available. UL Listed.



	12 QTS (CS)	(6) 64 OZ BAGS IN PAIL	(10) 64 OZ BAGS (CS)	(4) 1 GAL (CS)	5 GAL PAIL	55 GAL DRUM	270 GAL TOTE
F200i Summer	20000215	20000403	20000216	20000218	20000219	20002220	20000281
F200i Winter			20000217		20000220		
Shipping Weights	27 lbs	12.5 lbs	46 lbs	38 lbs	48 lbs	491 lbs	*

PROPERTIES	TEST METHOD	VALUE
Appearance	–	Opaque, cream colored, gel liquid
Brookfield Viscosity (100 rpm)	ASTM 2196	5000 cPs (25°C)
Density	–	Approximately 8.1 pounds per gallon
Percent Non-Volatile Solids	–	5.0 to 5.5%
Temperature Stability	Freeze/Thaw (10 cycles)	Excellent, no phase separation
	Higher Temperature (7 days @ 122°F)	Excellent, no phase separation
pH	–	7.0 - 8.0
Toxicity	–	Non-Toxic and Non-Sensitizing
Temperature Use Range	–	Summer Grade: 20°F to 140°F (-7°C to 60°C) Winter Grade: 0°F to 140°F (-18°C to 60°C)
Flammability	ASTM D93 (PMCC)	Product has no flash point, residue has no significant flammability
Polyethylene Stress Cracking	ASTM D1693 (14 days)	No failures (LDPE, MDPE and HDPE)
Compatibility with Cable Jackets	IEEE/ICC P1210	No adverse effects on physical or electrical properties
Lubricity	MDPE-jacketed cable in HDPE conduit BELLCORE TR-NTW-002811	(150 lb/ft sidewall load @ 65 fpm pulling speed) coefficient of kinetic friction < 0.11
Clean-up	–	Complete clean-up with water

Hydralube® F-200i is a water-based formulation that is essentially non-toxic and non-combustible. This material is easily washed off the skin or clothing with soap and water. Hydralube® F-200i is extremely slippery, and care must be taken to avoid spills, which might cause a slip hazard. Consult Hydralube® F-200i Material Safety Data Sheet (MSDS) for additional information.



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