

# DIELECTRIC FLUIDS FOR ELECTRICAL EQUIPMENT & CABLES

 Polybutenes

 Acetylene  
Black

 Performance  
Chemical Additives

 Polyalpha-  
olefins

 Alkylate  
Fluids

 Refrigeration  
Fluids

 Dielectric  
Fluids

 Transformer  
Fluids

 Cable Flood,  
Fill & Gels

 Corrosion  
Inhibitors

 Tackifiers

 Fumed  
Silica

 Metal  
Carboxylates



## **DF AND ELECTRIFILL DIELECTRIC FLUIDS**

**ERGON HYVOLT TRANSFORMER FLUID**

**SOLGUARD CABLE SHIELD  
ACSR ANTI-CORROSION GREASES**

**SOLTEX ACETYLENE BLACK**

**NAPTEL AND SOLTEXFILL TELECOM  
FILLING/FLOODING COMPOUNDS**



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# YOUR FULL-SERVICE RESOURCE FOR CABLE COMPOUNDS AND FLUIDS



Soltex supplies a broad range of compounds and fluids to improve the reliability of cable systems used in power and communications.



Our high-performance products, backed by extensive technical expertise and responsive service, have made Soltex the resource trusted by major cable manufacturers, utilities and electrical contractors.

Our world-class plant in Belleville, ON, provides the quality and consistency to meet your most demanding requirements. It also allows us the flexibility to custom-manufacture solutions for your individual requirements.

Together with our advantages in raw material sourcing and highly skilled plant personnel, Soltex has the production capabilities and service to help you achieve your product performance and business objectives.



# DIELECTRIC FLUIDS

## Description

Alkylate/polybutene-based insulating cable oils that meet AEIC standards, are compatible with materials of construction, and provide optimum high oxidative/thermal stability during manufacture and protection in service.

## Advantages

Low power factor, high dielectric strength, excellent oxidation stability, exceptional resistance to gassing under electrical stress, and superior heat dissipation. Excellent conductive heat transfer properties improve cooling.

## Uses

- Underground power cables
- Paper-insulated oil-filled power cables
- High pressure pipe-type cables
- Force cooled high pressure pipe-type cables
- Low and high viscosity impregnate for paper insulated and lead sheathed cables
- Hollow core self-contained cables
- Oil-filled submarine cables
- High voltage splice kits
- Vacuum impregnated tapes
- Custom designed joint kits
- Oil filled splice kits
- Pothead filling compound

## Experience

- On-site representation to oversee product testing and logistics
- Authoring manuals covering requirements for dielectric fluid handling
- Working closely with the majority of utilities, cable manufacturers and electrical contractors in North America to meet their specific delivery needs



# DIELECTRIC FLUID GRADES

## Grade

## Cable Application

### Insulating Fluids

DF 45/Electrifill 3788  
DF 100/Electrifill 100

Hollow core submarine cable  
Convection and force cooled high pressure pipe type  
Low pressure hollow core self-contained  
Convection and force cooled high pressure pipe type

DF 500/Electrifill 500

PB 6E/0CS

Convection and force cooled high pressure pipe type  
Low pressure hollow core self-contained  
Convection and force cooled high pressure pipe type

PB 8E/06CS

Electrifill 2288

Low pressure hollow core self-contained

### Impregnants

PB 015E/Electrifill 015CS  
PB 32E/Electrifill 30CS  
DF 3000  
Soltexfill NDC

Low viscosity for paper insulated PILC and pipe-type  
High viscosity for high pressure pipe type  
Low viscosity for paper insulated pipe type  
70°C and 90°C rated non-draining compound

- We can formulate custom grades to meet your viscosity needs.





# TRANSFORMER FLUIDS

## Product Descriptions

**ERGON.** | **HyVolt**  
Dielectric Fluids

- HyVolt I – IEC 60296:202 Uninhibited
- HyVolt I US – ASTM D3487:2016, Trace Inhibited
- HyVolt II/HyVolt II C50B – ASTM D3487:2016/Canada CSA C50-14 Class B Inhibited
- HyVolt C50A – Canada CSA C50-14 Class A, Type II & IV Inhibited
- HyVolt NE – ASTM D6871 Natural Ester, Biodegradable
- HyVolt SE – IEC61099 Synthetic Ester, Biodegradable
- HyVolt II NG – ASTM D3487:2016 Inhibited Negative Gassing
- HyVolt III – IEC 60296:2020 Special Applications



- Inhibsol 10 – 10% BHT, Mineral Oil Oxidation Inhibitor Booster
- PCA 1250D - silicone antifoam





# SOLGUARD CABLE SHIELD ACSR ANTI-CORROSION GREASE

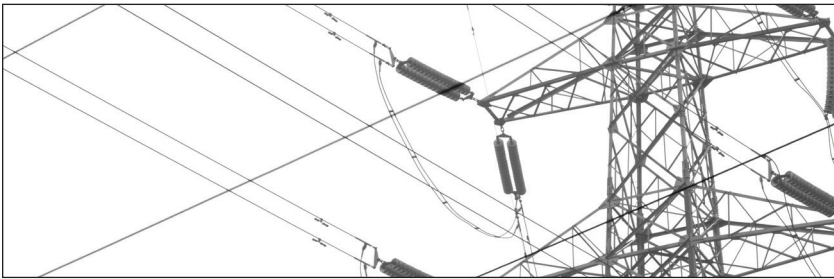
Bare Overhead Conductor Application

## Description

Both Lithium Complex and Organophilic clay based greases to prevent corrosion in bare overhead high-voltage conductors. Conductors made of aluminum, zinc, and steel are well-protected for continuous operation.

## Advantages

- Cold pumped and applied
- Non-dripping
- Efficient fill of conductor interstices
- Water washout resistant including saltwater spray-off environments
- Very good thermal, oxidative, and structural degradation at elevated temperatures



## Typical Properties

NLGI Grade	2
Water Washout ASTM D1264	<5% @ 80C
Water Spray Resistance ASTM D4049	<15%
Copper Strip Corrosion ASTM D4048	1A
Rust Prevention ASTM D5969	Pass
Salt Spray Corrosion Test ASTM B117	Pass

## Packaging

5 gal. pail, 55 gal. steel drum, or one-way totes.

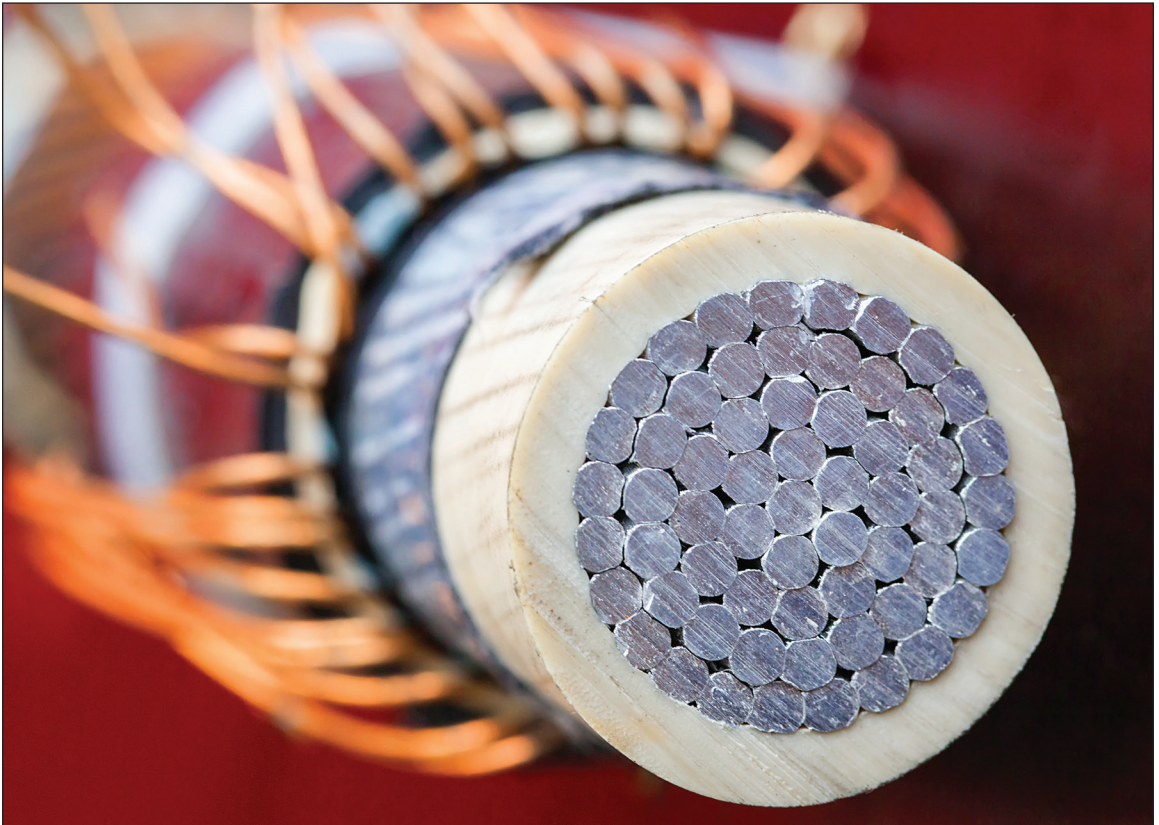


# SOLTEX ACETYLENE BLACK



## Description

Soltex Acetylene Black (AB) has structural properties offering high dispersion rates and high electrical conductivity. Soltex AB imparts semi-conductive properties to polymers typically used for cable screen filling and shielding. Polymer master-batches containing Soltex AB offer an effective way of delivering semi-conductive metrics to cable polymers.



# TELECOM CABLE WATER-BLOCKING



## Description

Compounds that provide cable insulation and block water ingress into telecommunications, fiber optic, and co-axial cable constructions.

- Cable flooding compounds applied to outer conductor core, metal armor, and between polymeric sheath layers
- Cable filling compounds that fill interstitial spaces of paired copper telecommunication cable





# CABLE FLOOD & FILL

## Description

Formulated synthetic hydrocarbon fluids and wax/polymer blends that provide oxidation inhibition and prevent moisture ingress in telecom cables.

## Advantages

Excellent moisture barrier and oxidation resistance. Assures dielectric properties for optimum telecom/fiber optic cable performance and provides good compatibility with polymers used in cable construction and termination enclosures.

### Cable Flood Grades

*Naptel 310*

*Naptel 500*

*Naptel 5116*

### Applications

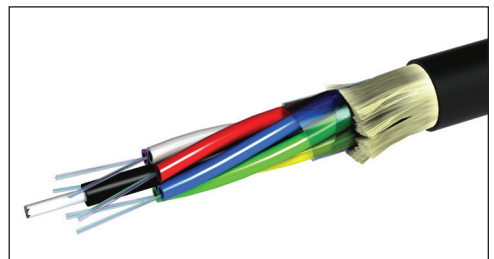
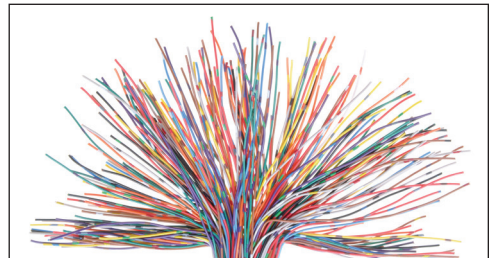
*All Naptel grades are used for flooding of cable cores, over armor and between insulation layers.*

### Cable Fill Grade

*Soltexfill ETPR*

### Applications

*"ETPR" strippable, low viscosity, filling compound used to prevent water ingress in twisted pair telecom cables.*



**S O L T E X**



SOLTEX CANADA

*Adding value to your formulations*

## QUALITY PRODUCTS, PROVEN PERFORMANCE

Our products are backed by proven expertise. Industry specialists at Soltex average more than three decades of experience with power and communications cable products.

Soltex has continually strengthened our resources to serve your needs. In 2006, we purchased the H&R business (heritage Dussek Campbell), giving us exclusive use of the Belleville, Ontario, facility and rights to Electrifiill and Naptel products in the Americas. In 2015, we purchased this facility, forming Soltex Canada and adding to our commitment to provide exceptional products and service:

1. Manufacturing is in close proximity to customers, allowing quick response
2. Production personnel have extensive experience
3. Strong position on raw materials - both components are core businesses for Soltex
4. Experienced logistics team to ensure product is properly handled
5. Readily available high-caliber technical support
6. History working with major utilities, cable manufacturers and contractors
7. Excellent track record with exceptional quality

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