

## Approvals and conformities

ABB POWER TECHNOLOGY	<i>Cleaning Power Cables Prior To Jointing</i>
ASTM International	<i>D877-87-Dielectric Strength Of 38 Kv To 51 Kv</i>
BOSTON EDISON CO. Electrical test group	<i>1.1.1. Trichlorethane Replacement</i>
DOBLE ENGINEERING COMPANY	<i>Dielectric Strength to ASTM D149</i>
ELASTIMOLD	<i>Compatibility Approval with Conductive Rubber Products &amp; Components</i>
FLORIDA POWER CORPORATION	<i>Class B Solvent Cleaner</i>
GE	<i>Compatibility Approval with Paper Insulation in Generators and Transformers</i>
GEORGIA POWER RESEARCH	<i>1.1.1. Trichlorethane Replacement</i>
IEEE POWER ENGINEERING SOCIETY	<i>Complies To Recommendations for Alternative Solvents for Electrical Cable Cleaning</i>
NKT CABLES	<i>Suggestion Tool List for Installation of Power Cable Accessories in the Medium Voltage Range</i>
PACIFIC GAS & ELECTRIC, CALIFORNIA	<i>Cleaning of Hot Sticks (Fibreglass), Trucks and Other Equipment</i>
PFISTERER	<i>Recommended Wipes as a Suitable Cleaning Product for Cleaning Very Soiled Joints/Covers, Transformer Connectors, Etc.</i>
PIRELLI / PRYSMIAN	<i>41.296.6.027 - Listed in Jointing Instruction for 245-300 kV Premoulded Straight Joint</i>
POTOMAC ELECTRIC POWER COMPANY	<i>Solvent Alternative During Waste Minimisation</i>
SAN DIEGO GAS & ELECTRIC	<i>1.1.1. Trichlorethane Alternative Solvent Study</i>
SÜDKABEL	<i>Replace Solvent Mab 90 and Aceton Where Transport By Air Is Necessary</i>
TYCO ELECTRONICS - ENERGY DIVISION	<i>Solvent Cleaning Wipes - Power Cables</i>
WESTERN UNDERGROUND	<i>Effect of Degreasing Solvents on Conductive and Semi-Conductive Shield Compounds and on the Electrical Performance of Molded Connectors</i>

**PF SOLVENT** is used by the following Utility Companies in Ireland and UK:

- Electricity Northwest
- Electricity Supply Board (ESB)
- Northern Powergrid
- Scottish & Southern Energy
- SP Energy Networks
- UK Power Networks

**PF SOLVENT** is a high flash point solvent cleaner and degreaser for cable cleaning prior to cable jointing, maintenance of cables, switchgear, network equipment and electrical equipment cleaning and degreasing. Removes greases, jelly, oils, soils, tar and bitumen residues. Suitable for use on high voltage (HV), medium voltage (MV) and low voltage (LV) applications and leaves no residue after complete evaporation. Designed to IEEE Recommendations. Ideal replacement to traditional, fast evaporating solvents such as Trichloroethane.

- Residue free cleaning ensures no earth tracking or hot spots
- Full resin adhesion to joint surfaces eliminates moisture ingress
- Helps to reduce installation faults, ensuring maximum cable life
- Dielectric strength between 25kV and 39kV in testing
- Controlled evaporation rate reduces solvent consumption, VOC emissions & costs compared to fast evaporating cleaning solvents
- Compatibility tested with most materials found in power networks
- Excellent cable compatibility with various cable jacket materials
- Use on PVC, MDPE, Lead, Aluminium, XLPE, EPR, Copper, Silicon, EPDM and Brass
- No deleterious effects on semi-conductor materials or commonly used gasket materials
- No lasting or serious impact on dielectric values of paper insulation tested
- Cleans most oils and greases, including room temperature residual fuel oil
- Did not exhibit any significant effects in testing on semi-conductor adhesion and mechanical strength or cause significant change in semi-conductor volume resistivity
- Available in both liquid and low lint pre-saturated wipes utilising a cloth compliant to AMS 3819C & BMS 15-5F qualification requirement
- Pre-saturated wipe system eliminates the hazardous storage, transport and logistical issues of loose flammable liquids

## **USES**

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**PF SOLVENT** is a high performance solvent cleaner and degreaser for cable cleaning prior to cable jointing and maintenance of cables, switchgear and network equipment.

- Cleaning cables prior to cable jointing and before installing the sealing end
- Removal of semi-conducting insulation shield residue, silicone grease and dirt
- Fiberglass cleaner for hot sticks, trucks and other equipment
- Cleaning & degreasing of cable oversheaths, cable metallic sheaths and connectors
- Removal of bitumen protection
- Cleaning & degreasing of extruded insulation cores
- Cleaning & degreasing of moulded and extruded joint and termination components
- Cleaning & degreasing of conductor connectors
- Cleaning very soiled joints/ covers and transformer connectors etc.
- Preparation of cable end terminations/ splices and construction of cable joints
- Cleaning, rebuilding, retrofitting and maintaining large generators, transformers and motors

- Cleaning & degreasing of metallic and plastic tools on completion of work
- Cleaning & degreasing electrical equipment and components including high voltage (HV)
- Degreasing solvent for assembling connectors on underground cable

## ***DIRECTIONS FOR USE***

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### **General Usage**

1. Apply a thin film of PF Solvent using liquid or a pre-saturated wipe
2. Allow a few minutes for surface action to dislodge contaminants
3. Wipe off with the same pre-saturated wipe or with a clean, dry low lint cloth (recommended)
4. Dispose of all wipes in an appropriate bin

### **Cable Cleaning (Jointing Operations)**

1. Follow cable manufacturers guidelines for cable jacket stripping to semi-conductive shield peeling
2. Clean the cable with PF Solvent – conduction and insulation – to remove residue and degrease
3. Always clean in the same direction from cable outward (conductor) to cable inward (semi-conductive shield) to avoid re-depositing residues already removed
4. Wipe off with a clean, dry low lint cloth (recommended)
5. It is not necessary to wait for full evaporation before further working on the system. Solvent residues will not affect the subsequent full cure of epoxy resins in jointing systems.
6. Dispose of all wipes in an appropriate bin

## ***TECHNICAL CHARACTERISTICS***

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Appearance . . . . .	Fluid liquid or pre-saturated wipes
Specific gravity . . . . .	0.765 (liquid) or >1 (presaturated wipes)
Flash point . . . . .	61°C

## ***PRECAUTIONS FOR USE AND STORAGE***

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Harmful, may cause lung damage if swallowed. Personal protective equipment should be used. Safety glasses are recommended where eye splashes can occur. Use solvent resistant gloves when handling as prolonged exposure may cause skin dryness or cracking.

PF solvent\_20301-29028F66B Date : 19-05-2014 Written and checked by : CL-GH

Toxic to aquatic organisms, may cause long term adverse effect in aquatic environment. Avoid release to environment. Do not empty into drains and waterways. Recycle or dispose of waste and soiled packaging in accordance with current legislation via a certified collector or company.

Store in original, sealed and labelled container only. Keep the container tightly closed in a dry, well ventilated space. The floor must be impermeable and form a collecting basin so that in the event of accidental spillage, the liquid cannot spread beyond this area.

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.