

*event-prevent with*

# HOT•STOP<sup>®</sup> XLN FIREPROOF BLANKET WRAPS



HOT•STOP Fireproofing Blankets were developed for use by electric utilities to fireproof underground cables, splices and related equipment in underground electric vaults. HOT•STOP XLN Blanket Wraps protect equipment and prevent the spread of fire.

Fireproofing material performance criteria was established by a major electric utility to determine the best solution for the prevention of outages caused by arc faults and sustained fires fueled by gases. The resulting product is HOT•STOP<sup>®</sup> XLN Fireproofing Blankets.



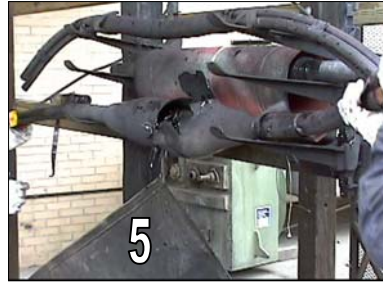
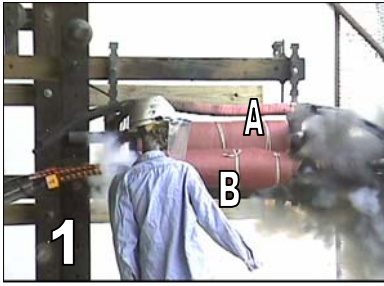
Extensive fire testing has been performed on HOT•STOP XLN Blanket for the protection of underground cables. Extreme fire conditions were simulated to qualify candidate products.

PECO Energy of Philadelphia performed tests by subjecting cables wrapped with HOT-STOP XLN Blankets to simulate a typical fire condition found in their underground electric vaults. The tests were conducted by subjecting the wrapped cable to a quick blast of 2000°F flame, simulating an explosion. The cable was allowed to cool and again subjected to a 2000°F flame for one minute and allowed to cool. Finally the wrapped cable was subjected to a 4-minute sustained burn.

Photo 1 shows the blanket after testing the three burn tests. In photos 2, 3 & 4 the blanket is being removed to inspect the cable. The cable was unaffected by the fire testing showing no damage to the outer jacketing.

Further evaluations suggested the cable would have survived the fire remaining in service avoiding a fault. For a CD containing test videos contact Industrial Energy Products, Inc.





In the above photo sequence HOT•STOPXLN Blanket Wrap was tested as a slice wrap (B) for personnel protection and (A) as a splice wrap to protect splices from outside arcing and fire conditions. To simulate arc fault conditions and the resulting fires, the lower splice was energized and forced to fault for the test. The test conditions recorded were 8,320V, 5,100A, 30 cycles.

- Photo 1** the products of combustion can be seen exiting the side of the wrap directed away from the test mannequin
- Photo 2** depicts the arc fault being forced away from the mannequin, the upper joint is takes a direct hit from the arc
- Photo 3** the resulting fireball from the arc condition completely engulf the upper joint protected with the HOT•STOP Wrap
- Photo 4** the live splice that was forced to arc for the third and final test
- Photo 5** the live splice has been unwrapped to expose the extent of damage caused by arc fault
- Photo 6** the upper joint that was wrapped with HOT•STOP XLN blanket has been unwrapped to show the splice joint that was protected for three arc faults

### **ESTABLISHED CRITERIA WAS MET & EXCEEDED AS LISTED**

EASE OF APPLICATION & SAFE FOR PERSONNEL CONTACT • NO FUMES OR TOXIC GASSES GENERATED • CAPABLE OF WITH WITHSTANDING HARSH CONDITIONS INCLUDING FIRE, ENVIRONMENTAL VELOCITY, CHEMICALS, BRACKISH WATER AND MECHANICAL DAMAGE • CONTAINS FIRES AND PROTECTS FROM EXTERNAL FIRE SOURCES • WILL NOT BURN OR SUPPORT COMBUSTION • PRODUCTS ARE IMPREGNATED WITH A PRODUCT SPECIFIC DYE FOR EASE OF IDENTIFICATION • COLOR TREATMENT WITHSTANDS WATER IMMERSION, CHEMICALS & SOILS • ALL PRODUCTS ARE ASBESTOS FREE • PRODUCED FROM CONTIBUOUS FILAMENT FIBERS WITH A DIAMETER OF 6 MICRONS • EACH ROLL IS UNIFORM IN DIMENSION AND PACKAGED IN CONTINUOUS LENGTHS WITHOUT SPLICES • HOT-STOP XLN PRODUCTS ARE COST EFFECTIVE

#### **HOT•STOP XLN Blanket & Cord**

Part #	Width	Length	Thickness
XLN-30-RR	30"	20'	.050"
XLN-30-RR	30"	10'	.050"
XLN-Tie Cord	2 lb. spool	386 yd.	1/16" diameter

Standard sizes listed, HOT-STOP XLN Blanket can be supplied in a variety of dimensions.



**Manufactured by:**  
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