



ESPECIFICACIONES TÉCNICAS ROPA IGNÍFUGA & DIELECTRICA



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NORMA NFPA 70E

Si usted trabaja en condiciones donde el arco eléctrico es un potencial peligro, lo más probable es que usted ha oído hablar de NFPA 70E.

NFPA 70E es una Norma para la seguridad eléctrica en el lugar de trabajo, creado por la Agencia Nacional de Protección contra Incendios (NFPA) que recomienda prácticas de seguridad para el personal que trabaja en entornos eléctricos con alto riesgo de arco eléctrico. Los estándares NFPA 70E aborda en detalle el equipo de protección de personal requerido en trabajos de electricidad, incluida la ropa que cumpla con los niveles adecuados de las Categorías de Peligros de Riesgo (HRC) a partir de situaciones específicas de trabajo.

NORMA ASTM F1506

Esta especificación de rendimiento cubre las características de diseño y los métodos de prueba asociados que se refieren específicamente a la resistencia al fuego de los materiales textiles utilizados en la fabricación de ropa de trabajo nivel de protección básico usado por los electricistas que están expuestos al arco eléctrico momentáneo y riesgos térmicos relacionados, tales como la exposición a una llama y el calor radiante.

ASTM D3787 : Método de prueba estándar para la Resistencia al Estallido.

ASTM D3776 : Métodos de prueba estándar para la densidad de superficie (peso) de Tela

ASTM D6413 : Método de Prueba Estándar para Resistencia a la Flama de la Industria Textil .

ASTM D5034: Método de prueba estándar para la Resistencia a la rotura y alargamiento de Textiles.

ASTM D2261: Método de prueba estándar para resistencia al rasgado de tejidos .

ASTM F1959 / F1959M: Método de prueba estándar para determinar la clasificación de arco de Materiales para la ropa.

CONFORMIDAD CON EL CONFORT

HSECURITY ofrece una línea completa de ropa de seguridad eléctrica para la protección del arco eléctrico, ofreciendo un HRC1 y un HRC 2 de protección. Ofrece una resistencia permanente al fuego sin derretimiento y sin goteo con telas de tejido autoextinguible. **HSECURITY** le provee lo necesario para cumplir con las pautas requeridas en su lugar de trabajo, de acuerdo a los requerimientos HRC. Drifire ofrece desde ropa interior hasta sus camisas. Drifire cumple con el rango de normas NFPA 70E asegurando que su ropa brinde la protección y confort en todas las condiciones climáticas. Sabemos que el sudor, las costuras abultadas y la retención de olores de algunas áreas pueden ser distracciones y molestias que impiden un buen desempeño. Drifire ofrece prendas que repelen la humedad y que se secan más rápido que el algodón, diseñadas para aumentar la comodidad, ofrecer resistencia a los malos olores y una permanencia fresca por más tiempo. Con todo ello nuestra ropa que cumple con la NFPA 70E minimiza las incomodidades para mantener al trabajador concentrado, disciplinado y preparado para hacer su mejor trabajo.



Camiseta Manga Larga Liviana

Code: HSDF21-CM-446LS

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1



TALLAS

Camiseta (tamaño pecho)	S	M	L	XL	2XL	3XL
Persona peso ultra ligero	36	40	44	48	52	56
Persona peso ligero	36	40	44	48	52	56
Persona peso medio	38	42	46	50	54	58
Persona gran peso	38 1/2	42 1/2	46 1/2	50 1/2	54 1/2	58 1/2
Persona extra peso	44	48	53	56	60	64

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Minera Escondida
Estampado 7cmx1,5cm



Logotipo Ignifugo
HRC I - 4,5cal/cm2
Estampado 5cmx4cm



Logotipo Bhp Billiton
11cmx8.5cm



Color negro



Color Azul Marino



Camiseta Manga Larga Liviana

Code: HSDF21-CM-446LS

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cutable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (S,M,A,U)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-01ae1	EH - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision		0		
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO#	Supplier COA Date: 2/24/12
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VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size:

Fabric Style: DF 100 (CV2446)

Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cutable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative:	Date: 10/18/12
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TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Camiseta Manga Corta Liviana

Code: HSDF21-CM-446TS

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1



TALLAS

Camiseta (tamaño pecho)	S	M	L	XL	2XL	3XL
Persona peso ultra ligero	36	40	44	48	52	56
Persona peso ligero	36	40	44	48	52	56
Persona peso medio	38	42	46	50	54	58
Persona gran peso	38 1/2	42 1/2	46 1/2	50 1/2	54 1/2	58 1/2
Persona extra peso	44	48	53	56	60	64

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Minera Escondida
Estampado 7cmx1,5cm



Logotipo Ignifugo
HRC1 - 4,5cal/cm2
Estampado 5cmx4cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Color negro



Color Azul Marino



Camiseta Manga Corta Liviana

Code: HSDF21-CM-446TS

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

 Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton/ 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (3,M,A,J)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-05ae1	Elt -4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision	0			
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO#	Supplier COA Date: 2/24/12
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VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size:

Fabric Style: DF 100 (CV2446)

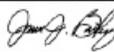
Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

Fiber Blend	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative: 	Date: 10/18/12
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TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.

Calzoncillo Largo Liviano

Code: HSDF21-CM-446LP



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
También disponible en corte para fuerzas policiales con un perfil ajustado
Tela suave para evitar rozaduras
Antimicrobiano para resistir el olor
Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1

TALLAS

Calzoncillo(tamaño cintura)	S	M	L	XL	2XL	3XL
Calzoncillo Largo Liviano	28	31	34	37	40	43

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Ignifugo
HRC1 - 4,5cal/cm2
Estampado 5cmx4cm



Color Azul Marino



Color negro



Logotipo Minería Escondida
Estampado 7cmx1,5cm



Logotipo Bhp Billiton
Estampado 11cmx8,5cm



Calzoncillo Largo Liviano

Code: HSDF21-CM-446LP

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (S,M,A,H)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-01ae1	EH - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision		0		
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO# _____ Supplier COA Date: 2/24/12

VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size: _____

Fabric Style: DF 100 (CV2446)

Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative: _____

Date: 10/18/12

TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Boxer Liviano

Code: HSDF21-CM-446BB

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

- Capa base perfecta para la ropa DRIFIRE otros
- También disponible en corte para fuerzas policiales con un perfil ajustado
- Tela suave para evitar rozaduras
- Antimicrobiano para resistir el olor
- Absorbe la humedad y secado rápido
- ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2**
- ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1



TALLAS

Calzoncillo(tamaño cintura)	S	M	L	XL	2XL	3XL
Calzoncillo Largo Liviano	28	31	34	37	40	43

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Ignifugo
HRCI - 4,5cal/cm2
Estampado 5cmx4cm



Color Azul Marino



Logotipo Miner Escordida
Estampado 7cmx1,5cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Boxer Liviano

Code: HSDF21-CM-446BB

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cutable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (S,M,A,H)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-01ae1	EH - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision	0			
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO# _____ Supplier COA Date: 2/24/12

VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size: _____

Fabric Style: DF 100 (CV2446)

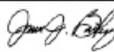
Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cutable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative:  Date: 10/18/12

TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)
Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Sostén Mujer Liviano

Code: HSDF21-185SB

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1



TALLAS

Tallas para Mujer	S	M	L	XL
Busto	32-34	34-36	36-38	38-40

DISEÑO - COLORES DISPONIBLES



Logotipo Ignifugo
 HRC1- 4,5cal/cm2
 Estampado 5cmx4cm



Etiqueta - Composición tela
 Estampado 5cmx4cm



Color Arena Desierto



Logotipo Minerera Escondida
 Estampado 7cmx1,5cm



Logotipo Bhp Billiton
 Estampado 11cmx8.5cm



Sostén Mujer Liviano

Code: HSDF21-185SB

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cutable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (S,M,A,H)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-01ae1	EH - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision		0		
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO#	Supplier COA Date: 2/24/12
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VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size:

Fabric Style: DF 100 (CV2446)

Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

Fiber Blend	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cutable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative:	Date: 10/18/12
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TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Calzón Mujer Liviano

Code: HSDF21-105WB

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1



TALLAS

Tallas para Mujer	S	M	L	XL
Cadera	34-36	36-39	39-42	42-45

DISEÑO - COLORES DISPONIBLES



Logotipo Ignifugo
 HRC1 - 4,5cal/cm2
 Estampado 5cmx4cm



Etiqueta - Composición tela
 Estampado 5cmx4cm



Color Arena Desierto



Logotipo Miner Esccondida
 Estampado 7cmx1,5cm



Logotipo Bhp Billiton
 Estampado 11cmx8,5cm



Calzón Mujer Liviano

Code: HSDF21-105WB

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cutable Width (inches)	ASTM D-3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3787	60	50	N/A
Dimensional Stability (% max)	AATCC 135 Table I (S,M,A,H)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1999/ F 1999M-01ae1	EH - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision		0		
Issued By	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

PO# _____ Supplier COA Date: 2/24/12

VENDOR NAME: DRIFIRE

Lot Number(s): 2121492

VENDOR REP: James J. Bailey

Shipment Size: _____

Fabric Style: DF 100 (CV2446)

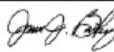
Lot Tested: 1

Fiber Blend: 75/15/10 - Mod/Cot/Nyl

	Spec	Result	Test Method
Fabric Weight oz/sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cutable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ATSM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413

Vendor Representative:  Date: 10/18/12

TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)
Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Balaclava Verano

Code: HSDF21-CM-185HB



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	80% Modacrylic - 14% Viscose - 6% Lycra
Peso de la Tela	8 oz

Capa base perfecta para la ropa DRIFIRE otros

También disponible en corte para fuerzas policiales con un perfil ajustado

Tela suave para evitar rozaduras

Antimicrobiano para resistir el olor

Absorbe la humedad y secado rápido

ASTM F1506, NFPA 70E, HRC 1; EBT 4,7 cal / cm 2

ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1

TALLAS

Talla Estándar

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Color Negro



Logotipo Ignifugo
HRC1 - 4,7cal/cm2
Estampado 5cmx4cm



Logotipo Minera Escondida
Operada por BHP Billiton
Estampado 7cmx1,5cm



Balaclava Verano

Code: HSDF21-CM-185HB

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FIRE WEAR				
Knit Fabric Specification				
Status	Provisional	Date Issued	6/29/009	
Fabric Description				
Fabric	8.0 oz Stretch Lycra Jersey			
Style / Item Number	69185 - 1000013			
Fiber Content	80% Modacrylic / 14% Viscose / 6% Lycra			
Specifications				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	8.0	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	58	-0	+2
Bursting Strength (lbs)	ASTM D 3787	45	40	N/A
Dimensional Stability (% max)	AATCC 135 Table I (3,J,V,A,B)	5% x 5%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<8	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<8	N/A	6
Melt / Drip		None		None
Arc Rating	ASTM F 1958/F 1959M-03ae1	EM - 4.7		
HRC Rating		1		
ASTM F1506 Flammability Requirements		Passes		
Revision	0			
Issued By:	Johnny Bailey			



DF2-CM-185 CB	Cold Weather Balaclava	69185-1000013
DF2-CM-185 HB	Hot Weather Balaclava	69185-1000013

Certificate of Analysis- Knit Fabric

PO# _____ Supplier COA Date: 3/5/10

VENDOR NAME: DRIFIRE

Lot Number(s): 16059, 16060

VENDOR REP: James J. Bailey

Shipment Size:

Fabric Style: 69185 Stretch Jersey

Lot Tested: 2

Fiber Blend: 80/14/6 - Mod/Viscose/Lycra	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	8.00	8.4	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	58"	58.5	ASTM D 3774
Bursting Strength, min, (psi)	50 lbs	52	ASTM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	Char	3.82	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0		ASTM D 6413

Vendor Representative:  Date: 10/18/12

TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)
 Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Balaclava Invierno

Code: HSDF21-CM-185CB



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	80% Modacrylic - 15% Cotton - 5% Paramid
Peso de la Tela	8 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 2; EBT 14,2 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1

TALLAS

Talla Estándar

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
 Estampado 5cmx4cm



Logotipo Bhp Billiton
 Estampado 11cmx8,5cm



Color Negro



Logotipo Ignifugo
 HRC2- 14,2cal/cm2
 Estampado 5cmx4cm



Logotipo Minera Escondida
 Estampado 7cmx1,5cm



Balaclava Invierno

Code: HSDF21-CM-185CB

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FIRE WEAR				
Knit Fabric Specification				
Status	Provisional	Date Issued	6/29/2009	
Fabric Description				
Fabric	8.0 oz Stretch Lycra Jersey			
Style / Item Number	69185 - 1000013			
Fiber Content	80% Modacrylic / 14% Viscose / 6% Lycra			
Specifications				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	8.0	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	58	-0	+2
Bursting Strength (lbs)	ASTM D 3787	45	40	N/A
Dimensional Stability (% max)	AATCC 135 Table I (3,J,V,A,B)	5% x 5%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<8	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<8	N/A	6
Melt / Drip		None		None
Arc Rating	ASTM F 1958/F 1959M-03ae1	EM - 4.7		
HRC Rating		1		
ASTM F1506 Flammability Requirements		Passes		
Revision	0			
Issued By:	Johnny Bailey			



DF2-CM-185 CB	Cold Weather Balaclava	69185-1000013
DF2-CM-185 HB	Hot Weather Balaclava	69185-1000013

Certificate of Analysis- Knit Fabric

PO#	Supplier COA Date: 3/5/10
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VENDOR NAME: DRIFIRE

Lot Number(s): 16059, 16060

VENDOR REP: James J. Bailey

Shipment Size:

Fabric Style: 69185 Stretch Jersey

Lot Tested: 2

Fiber Blend: 80/14/6 - Mod/Viscose/Lycra	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	8.00	8.4	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	58"	58.5	ASTM D 3774
Bursting Strength, min, (psi)	50 lbs	52	ASTM D 3786

Initial Flammability:

Char length, max, (in.) Length x Width	6" x 6" Max	Char	3.82	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0		ASTM D 6413

Vendor Representative:	Date: 10/18/12
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TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Camisa 1

Code: HSDF21-446LS



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros

También disponible en corte para fuerzas policiales con un perfil ajustado

Tela suave para evitar rozaduras

Antimicrobiano para resistir el olor

Absorbe la humedad y secado rápido

ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2

ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1

TALLAS

Camisa(tamaños regulares)	S	M	L	XL	2XL	3XL
Cuello	16 1/4	17 1/4	18 1/4	18 1/4	20 1/4	21 1/4
Pecho	41 1/4	45 1/2	49 1/2	53 1/2	57 1/2	61 1/2
Largo de manga	34	34 1/2	35	35 1/2	36	36 1/2

Camisa(tamaños altos)	S	M	L	XL	2XL	3XL
Cuello	16 1/4	17 1/4	18 1/4	18 1/4	20 1/4	21 1/4
Pecho	41 1/2	45 1/2	49 1/2	53 1/2	57 1/2	61 1/2
Largo de manga	35 1/2	36	36 1/2	37	37 1/2	38

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Ignifugo
HRC I - 4,5cal/cm2
Estampado 5cmx4cm



Color Arena Desierto



Logotipo Minera Escondida
Estampado 7cmx1,5cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Camisa 1

Code: HSDF21-446LS

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

DRIFIRE COMFORTABLE FOR WEAR				
Knit Fabric Specification				
Status	Completed	Date Issued	6/26/2009	
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cuttable Width (inches)	ASTM D 3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3707	60	50	N/A
Dimensional Stability (% max)	AATCC 136 Table I (3,4,5,6)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drop		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drop		None	N/A	None
Arc Rating	ASTM F 1909/ F 1909M-05a1	Elt - 4.5		
HRC Category		1		
ASTM F1906		Passes		
Revision	0			
Issued By:	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis - Knit Fabric

VENDOR NAME: DRIFIRE		PO#	Supplier COA Date: 2/24/12
VENDOR REP: James J. Bailey		Lot Number(s): 2121492	
Fabric Style: DF 100 (CV2446)		Shipment Size:	
Fiber Blend: 75/15/10 - Mod/Cot/Nyl		# Lot Tested: 1	
	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ASTM D 3786
Initial Flammability:			
Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413
Vendor Representative:	Date: 10/18/12		

TESTING SAMPLE SIZE FOR DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Camisa 2

Code: HSDF21-324LS



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	80% Modacrylic - 15% Cotton - 5% Para-Aramid
Peso de la Tela	7 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 2; ATPV 12,1 cal / cm 2
 ASTM D3776 - ASTM D5034 - ASTM D2261 - AATCC 135 - ASTM D6413
 ASTM F1959/F1959M-D06ae1

TALLAS

Camisa(tamaños regulares)	S	M	L	XL	2XL	3XL
Cuello	16 1/4	17 1/4	18 1/4	18 1/4	20 1/4	21 1/4
Pecho	41 1/4	45 1/2	49 1/2	53 1/2	57 1/2	61 1/2
Largo de manga	34	34 1/2	35	35 1/2	36	36 1/2

Camisa(tamaños altos)	S	M	L	XL	2XL	3XL
Cuello	16 1/4	17 1/4	18 1/4	18 1/4	20 1/4	21 1/4
Pecho	41 1/2	45 1/2	49 1/2	53 1/2	57 1/2	61 1/2
Largo de manga	35 1/2	36	36 1/2	37	37 1/2	38

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
 Estampado 5cmx4cm



Logotipo Minera Escondida
 Estampado 7cmx1,5cm



Logotipo Ignifugo
 HRC2- 12,1cal/cm2
 Estampado 5cmx4cm



Color Arena Desierto



Logotipo Bhp Billiton
 Estampado 11cmx8,5cm



Camisa 2

Code: HSDF21-324LS

CERTIFICACIÓN SEGÚN PRENDA

Woven Fabric Specification				
Status	Completed	Date Issued	5/1/2009	
Fabric Description				
Fabric	7.0 oz - 2 1/2 LH Twill			
Style / Item Number	7324-09000033			
Fiber Content	80% Modacrylic / 15% Cotton / 5% Para-Aramid			
Specifications				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	7.0	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	64"	-0	+2
Tensile Strength (lbs)	ASTM D 5034 (Grab Method)	90 x 60	40	n/a
Tear Strength (lbs)	ASTM D 2261	8.0 x 5.0	4	n/a
Dimensional Stability (% max)	AATCC 135 Table I (C,IV,A,B)	1.5% x 1.5%	N/A	3% x 3%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<6	N/A	6
Melt / Drip		None		None
Arc Rating	ASTM F 1259 / F 1506M-05ae1	ATPV - 12.1		
HRC Category		2		
ASTM F1506		Passes		
Provision		0		
Issued By	Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

VENDOR NAME: DRIFIRE		PO#	Supplier COA Date: 2/24/12
VENDOR REP: James J. Bailey		Lot Number(s): 2121492	
Fabric Style: DF 100 (CV2446)		Shipment Size:	
Fiber Blend: 75/15/10 - Mod/Cot/Nyl		# Lot Tested: 1	
	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ASTM D 3786
Initial Flammability:			
Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413
Vendor Representative:	Date: 10/18/12		

TESTING SAMPLE SIZE for DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Overall 1

Code: HSDF21-4460



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	75% Modacrylic - 15% Cotton - 10% Nylon
Peso de la Tela	5.4 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 1; EBT 4,5 cal / cm 2
 ASTM D3776 - ASTM D3787 - AATCC 135 - ASTM D6413 - ASTM F1959/F1959M-D06ae1

TALLAS

Talla	S	M	L	XL	2XL	3XL	4XL
	42	46	50	54	58	62	69

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Ignifugo
HRC I - 4,5cal/cm2
Estampado 5cmx4cm



Color Arena Desierto



Logotipo Minera Escondida
Estampado 7cmx1,5cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Overall 1

Code: HSDF21-4460

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

				
Knit Fabric Specification				
Status	Completed		Date Issued	6/26/2009
Construction				
Fabric	5.4 oz Light Weight Jersey - Tubular			
Style / Item Number	2446 - 30000013			
Fiber Content	75% Modacrylic / 15% Cotton / 10% Nylon			
Testing				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	5.4	-5%	+5%
Cuttable Width (inches)	ASTM D 3776	Body Size	-1	+2
Bursting Strength (lbs)	ASTM D 3707	60	50	N/A
Dimensional Stability (% max)	AATCC 136 Table I (3,4,5,6)	6.0% x 6.0%	N/A	8% x 8%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<=6	N/A	6
Melt / Drop		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<=6	N/A	6
Melt / Drop		None	N/A	None
Arc Rating	ASTM F 1909/ F 1909M-02ae1	EB1 - 4.5		
HRC Category		1		
ASTM F-1906		Passes		
Revision	0			
Issued By:	Johnny Bailey			



DF2-CM-446 BB	Lt. Weight Boxer	2446-30000013
DF2-CM-446 LP	Lt. Weight Long John	2446-30000013
DF2-CM-446 TS	Lt. Weight SS Tee	2446-30000013
DF2-CM-446 LS	Lt. Weight LS Tee	2446-30000013

Certificate of Analysis- Knit Fabric

VENDOR NAME: DRIFIRE		PO#	Supplier COA Date: 2/24/12
VENDOR REP: James J. Bailey		Lot Number(s): 2121492	
Fabric Style: DF 100 (CV2446)		Shipment Size:	
Fiber Blend: 75/15/10 - Mod/Cot/Nyl		# Lot Tested: 1	
	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	5.4	5.6	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	Body Size +/- 0.5"	24"	ASTM D 3774
Bursting Strength, min, (psi)	60 lbs Min	77.6	ASTM D 3786
Initial Flammability:			
Char length, max, (in.) Length x Width	6" x 6" Max	5.4" x 5.4"	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413
Vendor Representative: 	Date: 10/18/12		

TESTING SAMPLE SIZE FOR DRIFIRE

Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing)

Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.



Overall 2

Code: HSDF21-3240



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	80% Modacrylic - 15% Cotton - 5% Para-Aramid
Peso de la Tela	7 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido

ASTM F1506, NFPA 70E, HRC 2; ATPV 12,1 cal / cm 2

ASTM D3776 - ASTM D5034 - ASTM D2261 - AATCC 135 - ASTM D6413
ASTM F1959/F1959M-D06ae1

TALLAS

Talla	S	M	L	XL	2XL	3XL	4XL
	42	46	50	54	58	62	69

DISEÑO - COLORES DISPONIBLES



Etiqueta - Composición tela
Estampado 5cmx4cm



Logotipo Ignífugo
HRC2- 12,1 cal/cm2
Estampado 5cmx4cm



Color Arena Desierto



Logotipo Minera Escondida
Estampado 7cmx1,5cm



Logotipo Bhp Billiton
Estampado 11cmx8.5cm



Overall 2

Code: HSDF21-3240

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

Woven Fabric Specification				
Status	Completed	Date Issued	SCL0009	
Fabric Description				
Fabric	7.0 oz - 2 1/2 LH Twill			
Style / Item Number	7324-10000033			
Fiber Content	80% Modacrylic / 15% Cotton / 5% Para-Aramid			
Specifications				
Test	Method	Target	Min	Max
Weight (oz./yd. ²)	ASTM D 3776	7.0	-5%	+5%
Cuttable Width (inches)	ASTM D-3776	64"	-0	+2
Tensile Strength (lbs)	ASTM D 5034 (Grab Method)	90 x 60	40	n/a
Tear Strength (lbs)	ASTM D 2261	5.0 x 5.0	4	n/a
Dimensional Stability (% max)	AATCC 135 Table I (C/U/A/W)	1.5% x 1.5%	N/A	3% x 3%
Flammability	ASTM D6413			
Length				
After Flame (sec)		0	N/A	2
Char Length (in)		<=6	N/A	6
Melt / Drip		None	N/A	None
Width				
After Flame (sec)		0	N/A	2
Char Length (in)		<=6	N/A	6
Melt / Drip		None	N/A	None
Arc Rating	ASTM F 1559 / F 1559M-08ae1	ATPV - 12.1		
HRC Category		2		
ASTM F1506		Passes		
Revision		0		
Issued By:	J.Bailey			

DRIFIRE POWERED BY dri release		DF2-324 LS	Utility Shirt	7324-10000033
		DF2-AX3-324 LS	Hi-Viz Utility Shirt	7324-10000033
		PO# 3174	Supplier COA Date: 08/27/12	
VENDOR NAME: DRIFIRE		Lot Number(s): P133-01N		
VENDOR REP: James J. Bailey		Shipment Size: 793 yds		
Fabric Style: 7324 Twill Fabric		# Lot Tested: 1		
Fiber Blend: 80/15/5 - Mod/Cotton/Para-Aramid	Spec	Result	Test Method	
Fabric Weight oz./sq. yd. (+/- 5%)	6.71	6.92	ASTM D 3776	
Fabric Cuttable Width/Tubular Width (min)	64"	64	ASTM D 3774	
Tensile Strength (lbs) min	40 lbs	203 x 111	ASTM D5034	
Tear Strength (lbs) min	4 lbs	9.3 x 5.7	ATSM D 1424	
Initial Flammability:				
Char length, max, (in.) Length x Width	6" x 6" Max	5.0 x 4.7	ASTM D 6413	
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413	
Vendor Representative:	Date: 10/18/12			
TESTING SAMPLE SIZE for DRIFIRE Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing) Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.				



Pantalón

Code: HSDF21-324T



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Ropa de trabajo eléctrica
Composición de la tela	80% Modacrylic - 15% Cotton - 5% Para-Aramid
Peso de la Tela	7 oz

Capa base perfecta para la ropa DRIFIRE otros
 También disponible en corte para fuerzas policiales con un perfil ajustado
 Tela suave para evitar rozaduras
 Antimicrobiano para resistir el olor
 Absorbe la humedad y secado rápido
ASTM F1506, NFPA 70E, HRC 2; ATPV 12,1 cal / cm 2
 ASTM D3776 - ASTM D5034 - ASTM D2261 - AATCC 135 - ASTM D6413
 ASTM F1959/F1959M-D06ae1

TALLAS

Talla		Cintura	Pierna Interior	Pierna Exterior
Small	X-Short	27-31	-26 1/2"	38 1/4"
	Short	27-31	26 1/2" - 29 1/2"	40 3/4"
	Regular	27-31	29 1/2" - 32 1/2"	43 1/4"
	Long	27-31	32 1/2" - 35 1/2"	45 3/4"
	X-Long	27-31	35 1/2"	48 1/4"
Medium	X-Short	31 - 35	-26 1/2"	38 1/4"
	Short	31 - 35	26 1/2" - 29 1/2"	41 1/4"
	Regular	31 - 35	29 1/2" - 32 1/2"	43 3/4"
	Long	31 - 35	32 1/2" - 35 1/2"	46 1/4"
	X-Long	31 - 35	35 1/2"	48 3/4"
Large	Short	35 - 39	-29 1/2"	41 3/4"
	Regular	35 - 39	29 1/2" - 32 1/2"	44 1/4"
	Long	35 - 39	32 1/2" - 35 1/2"	46 3/4"
	X-Long	35 - 39	35 1/2"	49 1/4"
X-Large	Short	39	-29 1/2"	42 1/4"
	Regular	39	29 1/2" - 32 1/2"	44 3/4"
	Long	39	32 1/2" - 35 1/2"	47 1/4"

DISEÑO - COLORES DISPONIBLES



Logotipo Ignifugo
 HRC2- 12,1 cal/cm2
 Estampado 5cmx4cm



Etiqueta - Composición tela
 Estampado 5cmx4cm



Beige



Logotipo Minerá Escondida
 Estampado 7cmx1,5cm



Logotipo Bhp Billiton
 Estampado 11cmx8.5cm



Pantalón

Code: HSDF21-324T

Revisión: 11.07.2012

CERTIFICACIÓN SEGÚN PRENDA

Woven Fabric Specification					
Issue	Completed		Date Issued	SCL0009	
Fabric Description					
Fabric	7.0 oz - 2/1 LH Twill				
Style / Item Number	7324-10000033				
Fiber Content	80% Modacrylic / 15% Cotton / 5% Para-Aramid				
Specifications					
Test	Method	Target	Min	Max	
Weight (oz./yd. ²)	ASTM D 3776	7.0	-5%	+5%	
Cuttable Width (inches)	ASTM D-3776	64"	-8	+2	
tensile Strength (lbs)	ASTM D 5034 (Grab Method)	90 x 60	40	n/a	
Tear Strength (lbs)	ASTM D 2261	8.0 x 5.0	4	n/a	
Dimensional Stability (% max)	AATCC 135 Table I (C/U/A/W)	1.5% x1.5%	N/A	3% x 3%	
Flammability	ASTM D6413				
Char length					
Char Flame (sec)		0	N/A	2	
Char Length (in)		<6	N/A	6	
Wet / Drip		None	N/A	None	
Wet / Drip					
Char Flame (sec)		0	N/A	2	
Char Length (in)		<6	N/A	6	
Wet / Drip		None	N/A	None	
ARC Rating	ASTM F 1558/ F 1559M-06ae1	ATPV - 12.1			
ARC Category		2			
STM F1506		Passes			
Revisions		0			
Issued By:	J. Bailey				

Certificate of Analysis- Woven Fabric			
		DF2-324 LS	Utility Shirt
		DF2-AX3-324 LS	Hi-Viz Utility Shirt
		PO# 3174	Supplier COA Date: 08/27/12
VENDOR NAME: DRIFIRE		Lot Number(s): P133-01N	
VENDOR REP: James J. Bailey		Shipment Size: 793 yds	
Fabric Style: 7324 Twill Fabric		# Lot Tested: 1	
Fiber Blend: 80/15/5 - Mod/Cotton/Para-Aramid	Spec	Result	Test Method
Fabric Weight oz./sq. yd. (+/- 5%)	6.71	6.92	ASTM D 3776
Fabric Cuttable Width/Tubular Width (min)	64"	64	ASTM D 3774
Tensile Strength (lbs) min	40 lbs	203 x 111	ASTM D5034
Tear Strength (lbs) min	4 lbs	9.3 x 5.7	ATSM D 1424
Initial Flammability:			
Char length, max, (in.) Length x Width	6" x 6" Max	5.0 x 4.7	ASTM D 6413
After flame, max, s	2 sec Max	0 x 0	ASTM D 6413
Vendor Representative:	Date: 10/18/12		
TESTING SAMPLE SIZE for DRIFIRE Material tests shall be performed on textile materials as they are delivered to the clothing manufacturer. A COA certificate shall be issued for each new fabric order. Ongoing orders (Partial testing as above) shall be certified every 5,000 yards. Design tests shall be run on the original and when changes are made to flame resistant textile materials, for example, fiber type, yarn type, weaving style, fabric weight, dyeing, or finishing procedure. (Full 1506 Testing) Specific Military or End Customer requirement for COA Test data will supersede any requirement from DRIFIRE as noted in the Purchase Order.			



CERTIFICACIÓN PARA TODAS LAS PRENDAS



Letter of Fabric Testing

This letter is intended to give notice that Drifire validates the performance characteristics as stated on the DRIFIRE Fabric Specification Sheet. The testing is performed by 3rd party Testing Facilities to include the following:

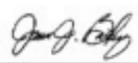
- Textest Testing Laboratories
- Precision Testing Labs
- Varies
- Manufacturing Solutions Center (MSC)
- North Carolina State Textile Lab
- University of Alberta
- Microstat Testing Labs
- Arc Wear

Listed below are of the fabric performance tests that are conducted on all Commercial fabrics:

- ASTM F 1506 Certification – Standard Performance Specification for Flame Resistant Textile Material for Wearing Apparel for Use by Electrical Workers Exposed Momentary Electric Arc and Related Thermal Hazards
 - Tests included with this certification are Tensile/Tear for wovens and Burst Strength for knits, Vertical Flammability, Dimensional Stability, Arc Testing, Colorfastness to Laundering

Other tests that have been performed, when required, include but are not limited to the following:

- ASTM F1930-00, Standard Test Method for Evaluation of Flame Resistant Clothing for Protection Against (Pyroman – Manikin Testing)
- Air Permeability
- Moisture Vapor Transmission
- Dry Time and Wicking
- Static Decay Testing


James J Bailey
Product Development Manager



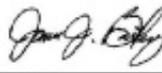
Compliance Certification

Listed below are of the fabric performance tests that are conducted on all Commercial fabrics:

- ASTM F 1506 Certification / NFPA 70E – Standard Performance Specification for Flame Resistant Textile Material for Wearing Apparel for Use by Electrical Workers Exposed Momentary Electric Arc and Related Thermal Hazards
 - Tests included with this certification are Tensile/Tear for wovens and Burst Strength for knits, Vertical Flammability, Dimensional Stability, Arc Testing, Colorfastness to Laundering

Specific Products:

Fabric	Garments	NFPA 70E	Arc Flash ASTM F1959	ASTM F1505
80277	DF2-277	HRC 2	Ebt – 13.2	Passes
2446	DF2-446	HRC 1	Ebt – 4.5	Passes
71240	DF2-240	HRC 1	ATPV – 5.4	Passes
7324	DF2-324	HRC 2	ATPV – 12.1	Passes
69185	DF2-185CB	HRC 2	ATPV – 14.2	Passes


James J Bailey
Product Development Manager

9/15/2011



Calzado Dieléctrico Hombre

Code: HSDF21-RET-1001

ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Calzado Dieléctrico
Composición Calzado	Cuero entero con paneles de nylon - Entre Suela Poliuretano
Resistencia	Hasta 75 Libras
Volt	14.000

Protección - Durabilidad - Comodidad
Sistema Anti-transpiración y fresco
Suela de goma antideslizante y resistente
ASTM F2413 1/75 C/75 Clasificación Toe Protector
Peligro Eléctrico Estándar



TALLAS ANCHO MEDIO

Número USA	8	8.5	9	9.5	10	10.5	11	11.5	12	13
Número CHILE	39	40	40 1/2	41	42	42 1/2	43	44	44 1/2	45 1/2

DISEÑO - COLORES DISPONIBLES



ASTM F2413
14.000 Volt











Marrón Oscuro

Logotipo Nivel de Tensión
Norma ASTM F2413
Estampado 5cmx4cm



Calzado Dieléctrico Mujer

Code: HSDF21-RET-1002

Revisión: 11.07.2012



ESPECIFICACIONES TÉCNICAS

Marca Producto	Hsecurity
Proveedor	Drifire
Clase	Calzado Dieléctrico
Composición Calzado	Cuero - Parte Superior Nylon Durable
Resistencia	Hasta 75 Libras
Volt	14.000

Protección - Durabilidad - Comodidad

Sistema Anti-transpiración y fresco

Suela de goma antideslizante y resistente

ASTM F2413 1/75 C/75 Clasificación Toe Protector

ASTM F2413 Peligro Eléctrico Estándar

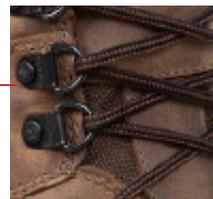
TALLAS ANCHO MEDIO

Número USA	8	8.5	9	9.5	10	10.5	11	11.5	12	13
Número CHILE	39	40	40 1/2	41	42	42 1/2	43	44	44 1/2	45 1/2

DISEÑO - COLORES DISPONIBLES



Logotipo Nivel de Tensión
Norma ASTM F2413
Estampado 5cmx4cm



Café





Comercial Pau
www.approvati.cl



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