

# Stanfield's Ltd

## Manufacturers Of Life Liners Fire Fighters Hoods

December 20, 2015

Leslie Maxam  
Montgomery County Fire & Rescue  
14935-B Southlawn Lane  
Rockville, MD 20850

To Whom It May Concern:

The content of the material in the KL23 hood is 49% Kermel, 49% LenzingFR fibers and 2% Spandex. The first two materials are inherently fire resistant. The Spandex does not burn, melt or drip. The chemical structure of these fibers has been designed to make them fire resistant for the life of the fiber. Washing of any kind will not alter this characteristic. Of interest is that the TPP of the KL23 fabric actually rises after 5 washings. (See attached)

However, the use of inappropriate chemicals in the washing of the hood can degrade and weaken the fabric. Chlorine bleach should never be used. The best detergent is a mild household product such as Tide. The water temperature of the wash should not exceed 110 degrees.

Very truly yours,



Stephen Asthalter  
Independent Agent for Stanfield's Ltd.

Phone: 973-635-4092 Fax: 973-635-2201 e-mail: [lifeliners@optinum.net](mailto:lifeliners@optinum.net)

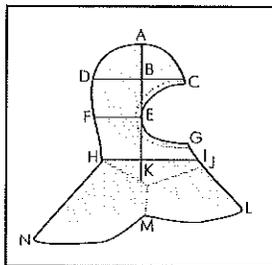
# STANFIELD'S<sup>®</sup> LTD

P.O. Box 190 - 1 Logan Street  
Truro, Nova Scotia Canada B2N 5C2  
902-895-5406 Fax: 902-893-8187  
e-mail: inquiries@stanfields.com

# EASY SEAL<sup>™</sup>

## NFPA 1971-2013 Edition

Specification KL23



**9723ES**

Measurements 9723ES	
A-B	4.0"
C-D	8.5"
E-F	6.5"
H-I	10.5"
G-J	4.0"
J-L	6.0"
H-N	8.0"
A-K	13.0"
K-M	3.0"

**Part Number: KL23**

**Fabric:**

Content: 49/49/2 Kermel/LenzingFR/Spandex  
Weight: 8.4 oz sq yd  
Construction: 1x1 Rib Knit  
Stretch: 100%  
Color: Navy Blue

**Head Design:**

Style: Separate head with sewn on back and front bib. The back of the head ends at the nape of the upper neck. The back bib is sewn at this point.

Layers: Two

Measurements: See chart above

**Bib Design:**

Style: A two piece double layer yoke style bib is sewn to the head and forms a neck seam. The front and back bib are joined at the shoulder to form a notched shoulder seam on either side of the head.

Layers: Two

Measurements: See chart above

**Face Opening:**

Face Opening Sewn with 1/2 inch elastic

Relaxed Measurement: 5 to 5.5 inches

Fully Stretched Measurement: Exceeds 15 inches

**Construction:**

Head Seams: All head and bib seams sewn with flat lock stitch.

Face Opening: Elastic sewn to edge with three thread overlock stitch; turned under and sewn with a two needle cover stitch.

Binding: One and a half inch binding sewn to hem through folder with a three thread cover stitch to create a 1/2 inch finished bound hem.

Thread: 100% Nomex

**Labels:**

FR label. All four label edges sewn to the hood.

**Certification:**

Classified by Underwriters Laboratories to meet NFPA Standard 1971 2013 edition.

## Test Results

### NFPA

**Thermal Protective Performance TPP**

Before Washing: 36.2  
After Washing: 45.8

**Flame Resistance Test One**

After Flame Before Washing: 0 sec  
After Flame After Washing: 0 sec

Char Length Before Washing: 27 mm  
Char Length After Washing: 24 mm

### ASTM: Electric Arc

Arc Thermal Performance Value APTV: 38 cal/cm<sup>2</sup>

Heat Attenuation Factor HAF: 93%