

## SPECIFICATIONS

### **LION COMMANDER ACE Model LPG928BK (Black – Gauntlet), or Yonkers approved equal.**

Vendor Meets Specification		
YES	NO	Exception

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#### **CERTIFICATION & ACCREDITATION**

This model is certified by Safety Equipment Institute (SEI) as to meeting the Structural Fire Fighting Protective Glove requirements of the *NFPA 1971 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, 2013 Edition*.

The *LION® Apparel, Inc. Quality Management System* is certified and registered by UL DQS Inc. as to being in conformance with the *International Quality System Standard ISO 9001:2008*.

#### **SIZES**

XXS (extra-extra-small), XS (extra-small), S (small), M (medium), L (large), XL (extra-large), and XXL (extra-extra-large), as required by the standard. Sizes 3XL (extra-extra-extra-large) and 4XL (extra-extra-extra-extra-large) are also offered.

In addition, versions with cadet (shorter) length fingers are offered in sizes S (small), M (medium), L (large), XL (extra-large), and XXL (extra-extra-large).

#### **MATERIALS**

Outer Shell (from fingertips to wrist edge): Side split cowhide leather - enhanced “eversoft” double-chrome tannage for thermal resistance, water resistance, and to stay soft and pliable when air-dried; 3 to 4 oz. thickness; color is black.

Moisture Barrier (from fingertips to hem seam at wrist): W.L. Gore & Associates, Inc. CROSSTECH® Insert with Film Technology.

Thermal Liner (from fingertips to wrist edge): 5.5 oz/sqyd Kovenex® non-woven proprietary fiber blend with fire retardant rayon stitch-bonding; color is yellow with white parallel (stitch-bonding) lines.

Thermal Insulation (back of thumb and back of hand from finger crotches to hem seam at wrist edge): Lite-N-Dri™; white-color 0.7 oz/sqyd meta-aramid textile laminated to charcoal-color 1/16” thick closed cell foam.

Exterior Shell Label (back of right hand glove only): A cosmetic “CROSSTECH® Glove Inserts” label is sewn to the back of each right hand glove. 3M Scotchlite Reflective; NFPA 1971-2013 compliant for fire retardancy; color is reflective silver.

Wrist Elastic: 7/16” wide elastic braid; zig-zag shirr-sewn across inside of palm and back wrists to provide snugness.

Thread: All outer shell seams sewn with black 30/5 (TEX 90) 100% Kevlar thread. All thermal liner seams sewn with natural (yellow) 30/5 (TEX 90) 100%

Kevlar thread. 45/3 (TEX 40) 100% Nomex gray thread is used to stitch the reflective label to the back of the right hand glove.

Back Logo: "LION® COMMANDER ACE" dry heat transfer logo is applied to the back knuckle panel of each glove; color is metallic silver.

Hanger Loop: A 0.5" wide, 100% cotton (treated for fire retardancy), black hanger loop is sewn into the back inside wrist seam of each glove.

Labeling: Two durable labels, showing identifying and all other information required by the standard, are sewn into the inner palm wrist seam.

User Information Guide: A user information guide, containing all the information required by the standard and additional manufacturer's information, is securely attached to one glove of each pair.

Packaging: One pair of gloves are sealed in a "LION® ready for action" poly bag.

### **DESIGN & CONSTRUCTION**

Design: Three-layer glove – with leather shell, moisture barrier insert, and thermal lining throughout. Also, for additional heat protection, a fourth layer has been added between the shell and moisture barrier layers on the back of the thumb and back of the hand from the finger crotches to the wrist seam. Glove is designed for increased dexterity and added comfort, and is cut on an enhanced gunn pattern, with a keystone thumb and three-piece four-finger back. Each layer is individually graded per size. The gauntlet interface design enables full moisture barrier and thermal liner protection from the fingertips to the hem seam at the wrist edge.

Construction: Entire glove utilizes 2-thread lockstitch construction, minimum of 7 stitches per inch, with the following exception – the palm and back wrist elastic seams are sewn flat with a 2-thread lockstitch zig-zag pattern. All seams not secured in other seams or crossed by another row of stitching shall be securely backstitched. The thermal liner shall be permanently attached inside the moisture barrier insert at each of the five fingertips, by proprietary means, to prevent liner pullouts. The moisture barrier insert/thermal lining sub-assembly shall then be attached inside the shell at the five fingertips, by proprietary means, to prevent insert/liner pullouts. During the manufacturing process, the moisture barrier insert and thermal liner layers are laminated together, by proprietary means, for purposes of interlayer slippage reduction and supplemental liner retention. The moisture barrier and thermal liner layers are stitched together around the wrist opening, with labels and hanger loop inserted in the seam, and the leather shell is turned back over the layers to finish the wrist opening with a hemmed edge.

### **INSPECTION**

Each glove is leak-tested, to ensure whole glove liquid integrity. Excess threads are trimmed, seams and workmanship are inspected, and overall appearance checked. Left and right hand gloves are paired together, and a user information guide is attached to one glove of each pair. One pair of

gloves are packaged per sealed poly bag.

