

BFP TECHNICAL SPECIFICATION

Number: PPE-TC-2017-02

FIREFIGHTER'S GLOVES

I. AUTHORITY/REFERENCES:

- A. Bureau Order Number COM 2017-069 dated 15 August 2017;
- B. National Fire Protection Agency (NFPA) 1971:2013 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting; and
- C. Approved BFP Technical Specification No. PPE-2016-02.

II. GENERAL DESCRIPTION

A brand new five-finger design FIREFIGHTER'S GLOVES or FIRE GLOVES made of high strength materials, heat, flame, cut, puncture, and water resistant, that is essentially composed of a fire resistant fabric outer shell, moisture barrier and thermal lining that delivers protection without sacrificing dexterity.

The gloves shall remain soft and durable after repeated washing and stays supple, flexible, and provides comfort with even long periods of use. It shall be provided by a closely fitted wristlet that extends beyond the opening of the glove body to cover the wrist area.

Over-all design and construction features shall be guided by latest applicable standards such as National Fire Protection Association (NFPA) and/or European Norms (EN) and passing the specified performance tests requirements in this specification.

III. TECHNICAL REQUIREMENTS

A. MATERIALS

A.1 OUTER SHELL

The outer shell shall be of leather or of equivalent strength or alternate composite material duly certified and designed with flame, thermal and mechanical resistance properties. It shall be water repellent and firmly sewn together. The gloves when machine washed shall not lose its properties of good thermal insulation, resistance against abrasion and sharp edges.

A.2 INNER LINERS

The inner liners shall be composed of breathable thermal and breathable waterproof moisture barriers made of polyurethane or equivalent material and sewn to outer shell at finger tips with extra strong flame resistant thread.

A.3 WRISTLET

A flame resistant close fitting wristlet which shall extend circumferentially beyond the wrist crease not less than 50 mm (2 in) and of dark tone/shade knitted fabric to minimized dirt staining effect or of equivalent type shall be provided to restrict the entry of ember and other foreign materials.

B. SEAMS

All seams shall be fully lock-stitched or of equivalent method and treated for water proofing for better tactility.

C. HANGER LOOP

A glove hanger loop shall be provided for hanging and drying purposes.

D. WEIGHT

The average weight of a pair of medium size firefighter's gloves shall not weigh greater than 370 grams $\pm 10\%$.

E. SIZES

Firefighter gloves shall be available in all of the ASIAN built sizes (Extra Small, Small, Medium, Large, Extra Large and Double Extra Large).

F. COLOR

Color shall be of Dark Blue or Black only and low-fading type.

G. LABELS

- G.1 Name of Manufacturer;
- G.2 Country of Origin;
- G.3 Type and/or Model;
- G.4 Month and year of Manufacture;
- G.5 Lot Number; and
- G.6 Size.

H. MARKINGS

There should have retro-reflective/visible permanent “**BFP**” marking printed on the dorsal part of each gloves in Arial Font type letter with a minimum of 8mm thickness, 22.5mm width and 37.5mm height proportionately and conspicuously arranged..

I. TESTING REQUIREMENTS

I.1 Test Samples

As part of the acceptance and ensure compliance with the technical specification, the manufacturer/supplier shall provide three (3) pairs of gloves of the same size, preferably medium size, over and above the contracted quantity representing the delivered lot as specimen samples to be randomly sampled during delivery to be subjected to all of the specified performance tests cited in Item I.2.

I.2 Performance Test

- I.2.1 Water Penetration Test
- I.2.2 Water Absorption Resistance Test
- I.2.3 Overall Water Integrity Test
- I.2.4 Conductive Heat Resistance Test
- I.2.5 Flammability Resistance Test

J. WARRANTY

Minimum one (1) year warranty

K. OTHER REQUIREMENTS

The Bidder/Supplier/Manufacturer shall provide the following during post-qualification stage:

1. One (1) representative sample
2. One (1) meter swatches material for the outer shell and inner linings
3. One (1) set of parts/components
4. Hard and soft copies in portable document format (pdf) of product brochures, test certificates and certifications

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