



# TECHNICAL SPECIFICATIONS

## FIRE SUITS



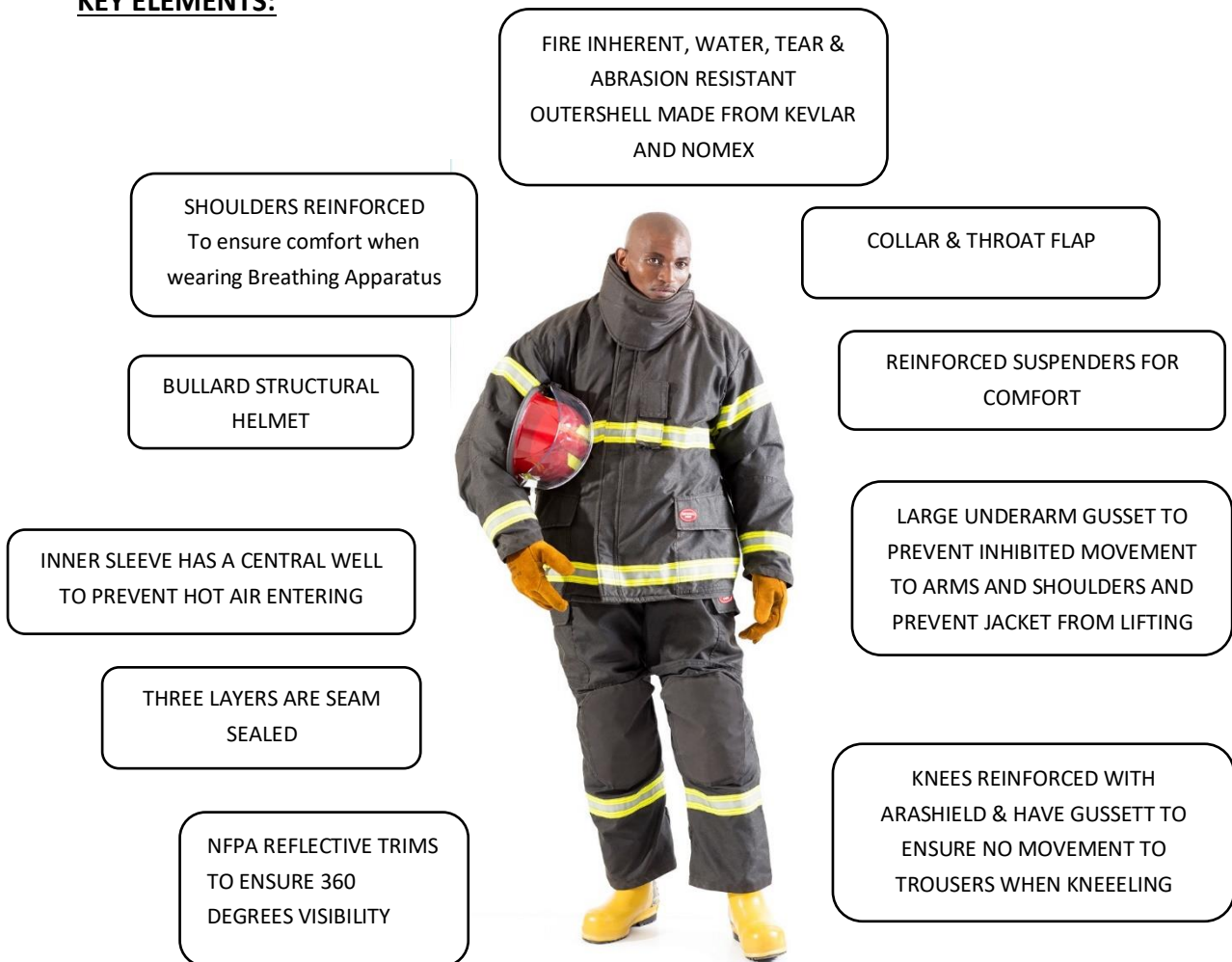
### IMPERIAL ARMOUR'S BUNKER STRUCTURAL SUIT:

#### OVERVIEW:

The **IMPERIAL FIRE**'s Structural 3-layer Fire Suit comprises of outer shell, moisture barrier and thermal barrier often referred to as a Bunker Suit and/or Turnout Gear. The Suit comprises of a tunic and pull up trousers. Imperial Armour's award-winning features ensure the Fire Suit is lighter than before, extra mobility and comfort without reducing the standard required for NFPA.

Imperial Armour's objective is to ensure the protection is consistent throughout the life and areas of the garment.

#### KEY ELEMENTS:



## **TESTING:**

There are the following tests that are carried out to material as follows:

### **Char Length**

Flame retardant adhere to a vertical flame test. After a controlled burning, the char length is measured.

### **Carbonisation**

After burning, the fabric changes its structure or state of decomposition when exposed to fire or heat. The fire-retardant fibres become carbonised and react by closing.

**All components of Imperial Armour's Bunker Suit meet NFPA Standards**

## **QUALITY:**

**IMPERIAL ARMOUR'S** quality system has been approved to ISO 9001:2008

<b>WEIGHT</b>	4.49kg
<b>PROTECTION</b>	NFPA STANDARDS & EN 469 STANDARDS
<b>WARRANTY</b>	5 YEARS

## IMPERIAL ARMOUR'S WILDLAND SUIT:

### OVERVIEW:

#### The **IMPERIAL ARMOUR'S Wildlands/ Grassland Fire Suit**

The Fire Suit consists of the Outer Shell which is an inherent and retardant fabric made from Nomex and Kevlar. There is optional second layer being the Thermal Barrier. This allows the fireman to ensure their first response team is secured within the standard parameters and thereafter can even attempt to return to the fire with additional time without further risk.

The sizing is of a loose fitting to prevent any heat built up. Wildland fire-fighters continually face heat stress which can result in heart attacks. **Imperial Armour** has succeeded in offering a suit that is light and as comfortable as possible – **Proudly a first in South Africa.**

### KEY ELEMENTS:



**QUALITY:**

**IMPERIAL ARMOUR'S** quality system has been approved to ISO 9001:2008. The company is proud of the quality of workmanship and quality of its products. We welcome customer inspection.

<b>WEIGHT</b>	+ - 2.2KGS
<b>PROTECTION</b>	NFPA STANDARDS & EN469 STANDARDS
<b>WARRANTY</b>	5 YEARS

## **IMPERIAL ARMOUR'S FIRE FLIGHT SUIT:**

### **OVERVIEW:**

The **IMPERIAL ARMOUR**- Fire Overall / Flight Suit comprises of a one-piece single layer overall with an elasticated waist. The fire overall / flight suit can be customized to client's requirements. The fire overall / flight suit is specifically designed to meet the rigors of firefighting and tactical service life.

### **KEY ELEMENTS:**



## QUALITY:

IMPERIAL ARMOUR'S quality system has been approved to ISO 9001:2008

<b>WEIGHT</b>	+ - 1.38KGS
<b>PROTECTION</b>	FIRE INHERENT AND / OR FIRE RESISTANT
<b>WARRANTY</b>	24 MONTHS

## COMPARISON SPECIFICATIONS:

	<u>BUNKER STRUCTURAL SUIT</u>	<u>WILDLAND SUIT</u>	<u>FIRE FLIGHT SUIT</u>
<u>ONE PIECE SUIT</u>			✓
<u>TWO PIECE SUIT</u>	✓	✓	
<u>ONE LAYER</u>		✓	
<u>TWO LAYERS</u>		✓	✓
<u>THREE LAYERS</u>	✓		
<u>LONG SLEEVES</u>	✓	✓	✓
<u>SHORT SLEEVES</u>	✓	✓	✓
<u>FIRE RETARDENT</u>	✓	✓	✓
<u>FIRE INHERENT</u>	✓	✓	✓

## IMPERIAL ARMOUR'S recommended accessories:



HELMET



CAIRNS HELMET



FIRE FIGHTING  
HOOD



PICK HEAD AXE



HOOLIGAN  
TOOL

[WWW.IMPERIAL-ARMOUR.COM](http://WWW.IMPERIAL-ARMOUR.COM)