

902/903/992
Defender

A New Standard
For Wildland Suits

FLAME PRO

DATASHEET

Correct: August 2024



The New Standard of Wildland Suits

902/903/992

Defender

Defender brings a completely new standard to wildland fire suits. With glow in the dark tape as standard, lightweight fabrics that provide brilliant protection yet are highly breathable and durable, and our industry-leading 96 size and fit options – Defender wildland suit is designed to set the new standard.

Product Details

Code

902 Jacket | 903 Trouser | 992 Coverall

Size

Chest/Waist: XS-4XL

Fit: Extra Short | Short | Regular | Tall | Extra Tall | XX Tall

Total 96 sizes from standard range (Two fits)

Colour

Navy | Red | Yellow (not hi-vis)

Other colours are available subject to MOQ

Product Standards

- AS/NZS 4824:2021 | Protective clothing for wildland firefighters
- EN ISO 15384:2020 | Protective clothing for firefighters - laboratory test methods and performance requirements for wildland firefighting clothing
- ISO 16073-3:2019 | Wildland firefighting personal protective equipment - Part 3: clothing
- ISO 18639-3:2018 | PPE ensembles for firefighters undertaking specific rescue activities - Part 3: clothing
- EN ISO 13688:2013 | General PPE requirements
- EN 1149-5:2018 | Electrostatic properties
- EN 1149-3:2004 Charge decay



Appropriate for:
Wildland



FLAME PRO

Features & Benefits

Carefully placed panelling to improve breathability; providing much-needed airflow to reduce the risk of heat stress

Retro-reflective glow in the dark tape, providing 8 hours of charge, seen at any time in any environment

Tape certified through more than 50 washes

Ergonomically shaped knee panels with reinforced fabric to protect against thorns, gorse, and undergrowth

Internal fixed knee pads to ensure wearers comfort

96 size options



Defender is included on the Wildfire PPE Ensemble national framework, led by Kent Fire Rescue Services under the NFCC National Fire Chiefs Council

Defender 902 Jacket

Features & Benefits

- Strategic panelling that's ergonomically shaped for wearer comfort and ease of movement; underneath the arm and the sleeve at the elbow area
- Available in colours red and navy to match trouser (plus optional yellow)
- Concealed front zip closure covered by a storm flap
- Adjustable collar tab for better fit
- High shaped mandarin collar for better comfort and protection
- Thumb loop to stop sleevng riding up when arms are extended, features elastic attachment for ease of movement
- Adjustable cuff tabs for better fit and to prevent the entry of burning debris and provide secure closure with gloves
- Vertical welt pocket on right side as worn for survey maps
- Two bellow radio pockets, adjustable for different radio heights, flaps can accommodate radio antennas at both sides, pockets above top reflective tape
- Shoulder reinforcement and 3D padding for added comfort when wearing backpacks
- Stitched ventilation holes under each armpit
- All closures are easily operated whilst wearing gloves
- Two microphone loops at upper chest
- Double layer of fabric in the elbow area for added protection
- Napoleon pocket on left side as worn
- Whistle loop inside the Napoleon pocket
- Pen pocket underneath the storm guard
- Extended hem at the back to ensure full coverage of the lumber region when bending
- Grab tab at the storm guard for easier opening when gloves are worn, additionally storm guard attached
- Using spot Velcro® closure for better closure system
- Reinforcement fabric at cuff hem for better abrasion resistance
- Industrial wash, flame retardant sew-on reflective tape, attached with twin needle stitching for added strength, 50mm wide
- Twin needle structural seams for added strength
- Main zip attached to zip carrier for easier repair



Image:
902-VA1 Jacket



Appropriate for:
Wildland

Defender 903 Trouser

Features & Benefits

- Ergonomically shaped knee panels
- Available in colours red and navy to match jacket (plus optional yellow)
- Centralised fly zip with inner zip guard
- Internal elasticated waist band at the back
- Front waist adjustment for better fit
- H-Bar Removable braces with quick adjustment
- Double layer crotch gusset for comfort
- Reinforced fabric at the knee and shin area, double layer of fabrics to protect against thorns and gorse or undergrowth
- Leg bottoms have a gusset and secured adjustable closure system to facilitate donning and doffing whilst wearing wildland boots.
- Two large bellow combat style pockets, featuring glove hanging loops, secured with reinforced edge flaps, including carabine snap hook, pocket size 16cm x 20cm
- All closures are easily operated whilst wearing gloves
- Reinforced leg hem for abrasion resistance
- Industrial wash, flame retardant sew-on reflective tape, attached with twin needle stitching for added strength, 50mm
- Twin needle structural seams for added strength
- Easier zip repair



Appropriate for:
Wildland

Defender 992 Coverall

Features & Benefits

- Strategic panelling that's ergonomically shaped for wearer comfort and ease of movement; underneath the arm and the sleeve at the elbow area
- Concealed front zip closure covered by a storm flap
- Adjustable collar tab for better fit
- High shaped mandarin collar for better comfort and protection
- Thumb loop to stop sleeves riding up when arms are extended, features elastic attachment for ease of movement
- Adjustable cuff tabs for better fit and to prevent the entry of burning debris and provide secure closure with gloves
- Vertical welt pocket on right side as worn for survey maps
- Two bellow radio pockets, adjustable for different radio heights, flaps can accommodate radio antennas at both sides, pockets above top reflective tape
- Shoulder reinforcement and 3D padding for added comfort when wearing backpacks
- Stitched ventilation holes under reach armpit
- All closures are easily operated whilst wearing gloves
- Ergonomically shaped knee panels
- Internal elasticated waist band at the back
- Front waist adjustment for better fit
- Double layer crotch gusset for comfort
- Reinforced fabric at the knee and shin area, double layer of fabrics to protect against thorns and gorse or undergrowth
- Leg bottoms have a gusset and secured adjustable closure system to facilitate donning and doffing whilst wearing wildland boots.
- Two large bellow combat style pockets, featuring glove hanging loops, secured with reinforced edge flaps, including carabine snap hook, pocket size 16cm x 20cm
- Two microphone loops at upper chest
- Double layer of fabric in the elbow area for added protection
- Napoleon pocket on left side as worn
- Whistle loop inside the Napoleon pocket
- Pen pocket underneath the storm guard
- Extended hem at the back to ensure full coverage of the lumber region when bending
- Grab tab at the storm guard for easier opening when gloves are worn, additionally storm guard attached
- Using spot Velcro® closure for better closure system
- Reinforcement fabric at cuff hem for better abrasion resistance
- Twin needle structural seams for added strength
- Main zip attached to zip carrier for easier repair
- Reinforced leg hem for abrasion resistance
- Industrial wash, flame retardant sew-on reflective tape, attached with twin needle stitching for added strength, 50mm
- Side access



Appropriate for:
Wildland



Image:
992-VA2 Coverall

902/903 Jacket & Trouser Size & Fit Guide

902/903 VA1 Size Guide

Jacket Size	Chest/Bust	Trouser Size	Waist	Seat/Hip
X-Small	84-92cm / 33-36"	X-Small	68-76cm / 27-30"	78-86cm / 31-34"
Small	92-100cm / 36-39"	Small	76-84cm / 30-33"	86-94cm / 34-37"
Medium	100-108cm / 39-42"	Medium	84-92cm / 33-36"	94-102cm / 37-40"
Large	108-116cm / 42-45"	Large	92-100cm / 36-39"	102-110cm / 40-43"
X-Large	116-124cm / 45-49"	X-Large	100-108cm / 39-42"	110-118cm / 43-46"
2X-Large	124-132cm / 49-52"	2X-Large	108-116cm / 42-45"	118-126cm / 46-49"
3X-Large	132-140cm / 52-55"	3X-Large	116-124cm / 45-49"	126-134cm / 49-53"
4X-Large	140-148cm / 55-58"	4X-Large	124-132cm / 49-52"	134-142cm / 53-56"

902/903 VL1 Size Guide

Jacket Size	Chest/Bust	Trouser Size	Waist	Seat/Hip
X-Small	84-92cm / 33-36"	X-Small	68-76cm / 27-30"	86-94cm / 34-37"
Small	92-100cm / 36-39"	Small	76-84cm / 30-33"	94-102cm / 37-40"
Medium	100-108cm / 39-42"	Medium	84-92cm / 33-36"	102-110cm / 40-43"
Large	108-116cm / 42-45"	Large	92-100cm / 36-39"	110-118cm / 43-46"
X-Large	116-124cm / 45-49"	X-Large	100-108cm / 39-42"	118-126cm / 46-49"
2X-Large	124-132cm / 49-52"	2X-Large	108-116cm / 42-45"	126-134cm / 49-53"
3X-Large	132-140cm / 52-55"	3X-Large	116-124cm / 45-49"	134-142cm / 53-56"
4X-Large	140-148cm / 55-58"	4X-Large	124-132cm / 49-52"	142-150cm / 56-59"

Both the **VA1** and **VL1** garments can be worn by either gender, there is no visible difference to the garments. Only the fit is different. The wearer should choose their sizes based on the body measurements to ensure the best fit. Please note both Tunic and Trouser must be the same fit, VA1 Tunic with VA1 Trouser or VL1 Tunic with VL1 Trouser.

992 Coverall Size & Fit Guide

992 VA1 & VL1 Size Guide

Size Guide	Height – use for garment length	Inside Leg – use for trouser length
X-Short	156-164cm / 5'2"-5'5"	68cm / 27"
Short	164-172cm / 5'5"-5'8"	73cm / 29"
Regular	172-180cm / 5'8"-5'11"	78cm / 31"
Tall	180-188cm / 5'11"-6'2"	83cm / 33"
X-Tall	188-196cm / 6'2"-6'5"	88cm / 35"
XX-Tall	196-204cm / 6'5"-6'8"	93cm / 37"

How to measure & pick the right size

Height measurement

With bare feet together measure from the top of the head to the floor.

Chest / Bust measurement

Measure under the arms at the fullest part around the chest, horizontally with arms by your side.

Waist measurement

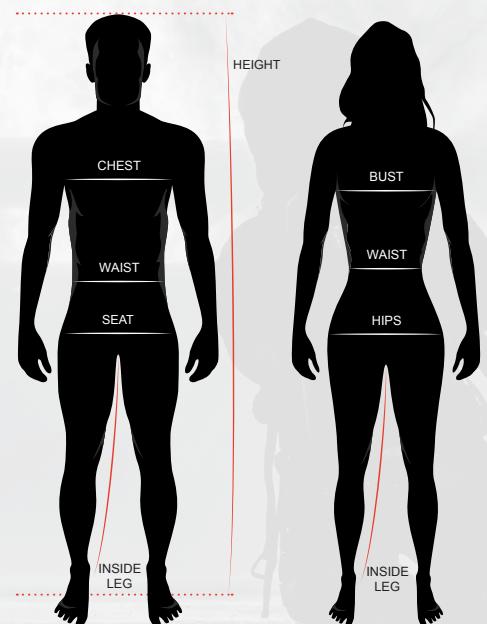
Measure around the natural waistline at the fullest part.

Seat / Hip measurement

With the feet together, measure around fullest part.

Inside leg measurement

In bare feet take the measurement from the top of the inside leg and measure down the inside leg to the floor.



902/903/992 Defender

Washing & Care Guidelines

We recommend care and maintenance in line with BS 8617, which can be obtained from BSI shop (shop.bsigroup.com).

General PPE Maintenance Guidelines

- Wash the PPE regularly using specially adapted programs for contaminated emergency clothing
- The garments should be cleaned after incidents where they have been affected by fire gases or soiled by soot, by-products of combustion, blood, body fluids, tar, fuel, resin, paint, acid or other dangerous substances
- Contaminated clothing should be transported so that gases are enclosed
- Pressure clothing should be cleaned separately from other garments
- Do not hang the garment in direct sunlight, as UV radiation will eventually weaken the outer fabric
- Lubricate the zipper if it doesn't feel smooth
- If heavily soiled then use special procedures for washing

Before Washing

- Ensure all zips within the garments are fastened
- Ensure all Velcro® closures are fastened
- Ensure all buttons are closed
- Ensure all pockets are empty
- Remove any detachable ID tags
- Relax any adjustable closures, typically in the cuff, collar, ankle, waist

After Washing & Drying

- Ensure closures are functioning after wash
- Ensure the fit of garment is still suitable, the garment is not too loose or close fitting
- There is a sufficient overlap between jacket and trouser when performing stretching movements of legs and arms
- There is no damage or soiling
- The clothing is dry, both inside and outside
- Check seams integrity or broken stitches
- Check reflective tape condition

Important Notes

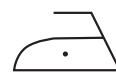
- Ensure cleaning is performed by a trained specialist, do not clean in a private household
- Follow product care label instructions
- Do not use domestic washing detergents, powders, softeners or whitening agents
- Do not use a tumble dryer
- Do not iron retro-reflective tape
- Do not wash with combustible materials



Washing Machine
60 Degrees



Tumble Dry Settings
One dot:
Low Temperature



Ironing
One dot:
Low Temperature



Dry Cleaning
P: Dry cleaning with
Perchloroethylene



Do Not Bleach

