
INFOREST EXPERIENCE
INFOREST
LEADERS IN WILDLAND FIRES

WELCOME!

WE ARE INFOREST

INFOREST

We Design › We Manufacture › We Market

Flexible and high-quality solutions for firefighting and rescue.

We stand out for constant innovation, developing reliable and effective products that meet the changing needs of those who risk their lives in extreme situations.

Our purpose is to protect and support firefighters and brigades in the field, making their work easier and contributing to the care of people and the natural resources essential to the planet.

WHERE ARE WE?

INFOREST SRL

Brasil 1238
Alta Gracia - Córdoba
Argentina

ANNEX TEXTILE WORKSHOP

INFOREST IBÉRICA SL

C. Estaño 32
Campo Real - Madrid
España


ΠΥΡΟΣΒΕΣΤΙΚΟ
ΣΩΜΑ


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REINO UNIDO
VIMPEX LTD
FRANCIA
GALLIN S.A.S
PORTUGAL
TOUCHFIRE
MÉXICO
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HISPAMAST LATAM
ESPAÑA
HISPAMAST
SIPE PROTECTION
(CATALUÑA)
HONG KONG
RELITE CO. LTDA
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JYJ ELECTROMECÁNICA S.A
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HEADQUARTERS
REPRESENTATIVE

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LEADERS IN WILDLAND FIRES

MASTER DISTRIBUTION

in Latam and Europe

MERCEDES TEXTILES LIMITED

Innovation delivered.™

REPRESENTATIONS

Bullard

MERCEDES TEXTILES LIMITED
Innovation delivered.™

SICOR

STREAMLIGHT

STIHL®

OUR FIGURES FOR 2024

We produced more than 5,000 water backpacks

We produced more than 7,000 personal protective equipment units

We produced more than 10,000 digging tools

We operate across 5 continents

We export to more than 30 countries.

OUR BUSINESS UNITS

FOREST FIRE

PERSONAL PROTECTION

RESCUE EQUIPMENT

STRUCTURAL FIRES

2025 +30 TEAM MEMBERS

Quality Management System certified under IRAM – ISO 9001:2015, covering:

- Design, manufacturing, and commercialization of proprietary products for firefighting and rescue.
- Commercialization of third-party products for firefighting and rescue.
- Technical service for the marketed products.

Joint work with AITEX (Valencia), Notified Body No. 0161, for the application of Regulation (EU) 2016/425.

Foundation: Year 2000

aitex®
textile research institute

UPCOMING **EVENTS**

SEPTEMBER

- The Emergency Show Birmingham, UK /VIMPEX
- Sobra Eslovenia /Slovenia /LIVE SAFE d.o.o

OCTOBER

- Congress des Pompiers 24 /Le Mans, FRANCE /GALLIN
- Forestry Conference /CROATIA
- Reas Show / Brescia, ITALY /SAFCO
- Florean / Dresden, GERMANY / BARTH

NOVEMBER

- A+A Fire /Safety Germany /BARTH
- Technical Conference Catalonia /Catalonia, Spain – SIPE
- IWC /Scotland, UK /VIMPEX

2026

FEBRUARY

- Sicur Madrid, Spain

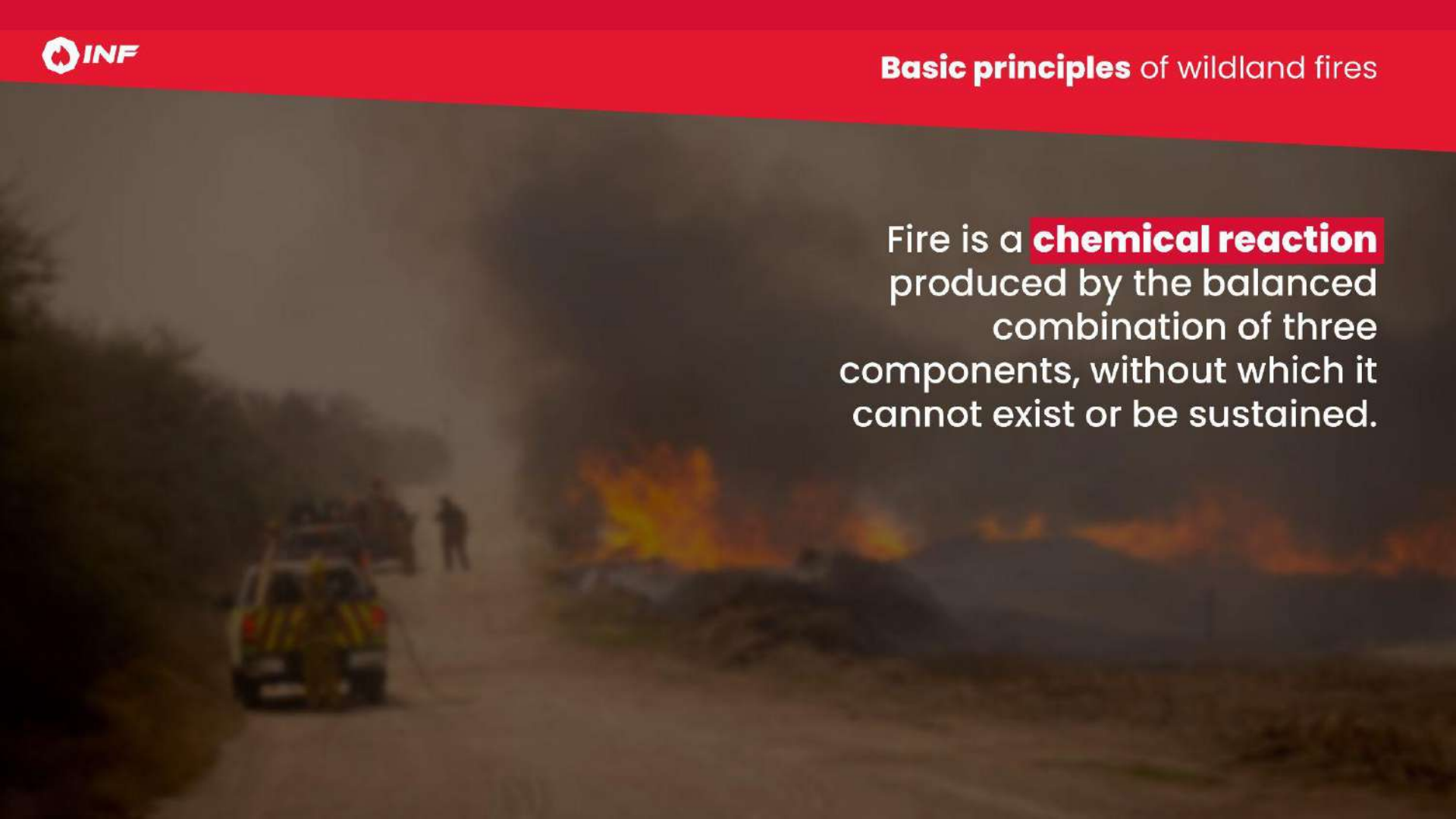
JUNE

- Interschutz Germany

NEW **BRAND IDENTITY 2025**

INFOREST


WILDLAND FIRES
Basic principles
INFOREST
LEADERS IN WILDLAND FIRES



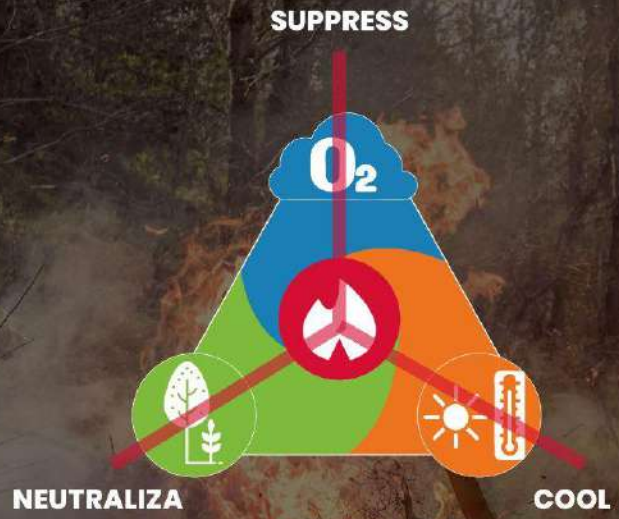
Fire is a **chemical reaction** produced by the balanced combination of three components, without which it cannot exist or be sustained.

Basic principles of wildland fires

The Fire Triangle is a simple graphic representation to understand and analyze the 3 components necessary for a wildland fire to occur and be sustained. These are:

- O_2 **OXIDIZER** (oxygen from the environment)
- **FUEL** (organic matter available for fire)
- **HEAT** (natural sources such as lightning, or human origin, intentional, accidental, or through negligence).

Basic principles of wildland fires



The **basic techniques** applied to **wildfire suppression** aim to **eliminate at least one of these sides.**

These may include:

Applying water to remove heat | **Cooling**

Removing fuel, neutralizing it | **Neutralizing**

Smothering by displacing oxygen | **Suppressing**

These actions are carried out **using mechanical tools**, hand tools, or a combination of both.

Motor pumps with water lines and backpack pumps in their various models are efficient in removing the heat of a wildfire.

Hand tools designed for the different types of fuels have a specific function, which is enhanced by combining one or more of them, removing fuel in the fire line to neutralize it.

The use of fire beaters directly on the flames suppresses fire by eliminating oxygen.

METHODS
DIRECT AND INDIRECT

To fight a fire, internationally established methods are applied directly or indirectly if heat and intensity conditions do not allow approaching the flames.

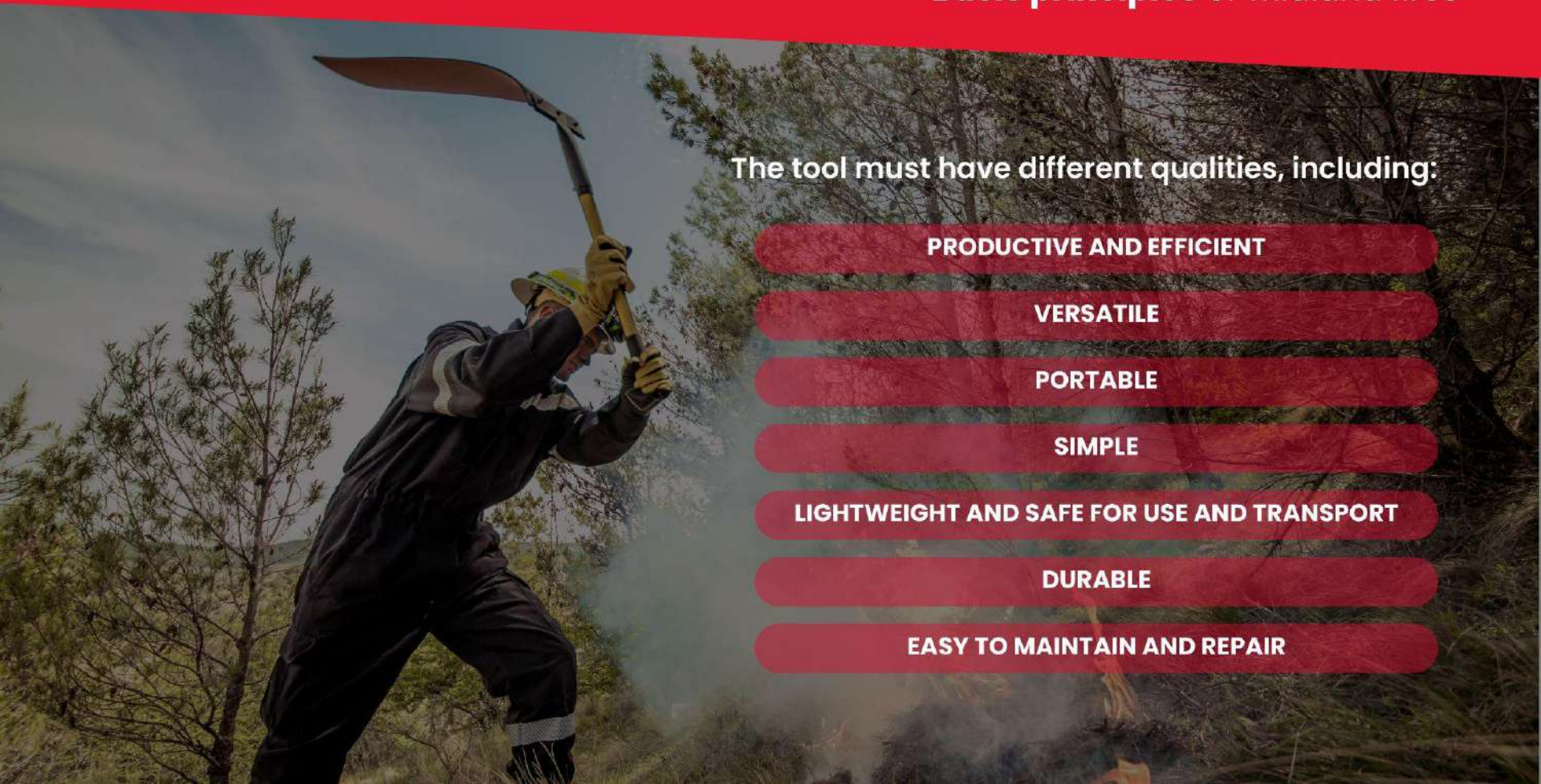
Direct action on the fire is called the Direct Method. In this method, hand tools, backpack pumps, fire beaters, motor pumps, and/or a combination of them are used.

Another variant is the **two-foot attack** on the flame in a horizontal line, which, although not directly on the flame, is close enough and, when combined with different tools, can be very efficient.

In the indirect method, the action is carried out at a safe and calculated distance from the fire's trajectory with the aim of "encircling" the fire.

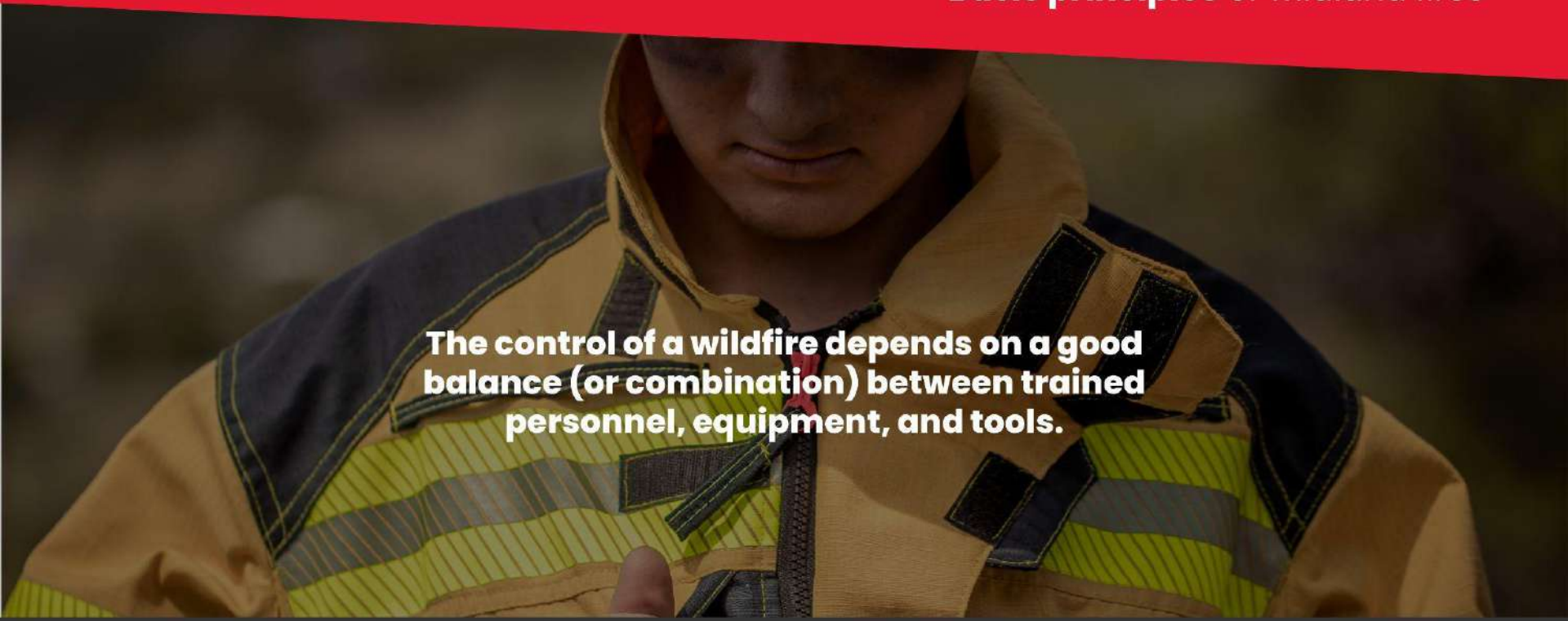
For this purpose, strips similar to trails or roads of variable width are constructed, removing fuel in the potential trajectory of the fire.

The construction of these lines with hand tools, combined with the use of torches and motor pumps, are also examples of this method.



The tool must have different qualities, including:

- PRODUCTIVE AND EFFICIENT
- VERSATILE
- PORTABLE
- SIMPLE
- LIGHTWEIGHT AND SAFE FOR USE AND TRANSPORT
- DURABLE
- EASY TO MAINTAIN AND REPAIR



Mop-up consists of completely **eliminating any source** that could cause the already controlled fire to reignite.

FOREST FIRE

TOOLS

WATER EQUIPMENT

BAGS AND BACKPACKS

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TECHNICAL PRESENTATION
BLOCK 1
INFOREST
LEADERS IN WILDLAND FIRES

TOOLS

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FIBERGLASS HANDLE

Excellent impact absorption, preventing the transmission of vibrations to the user during work, which reduces muscle fatigue and lowers the risk of injuries from prolonged use.

Provides **high mechanical resistance,** dimensional stability, and great durability under extreme conditions of humidity, temperature, and sun exposure.

It is **maintenance-free,** ensuring longer service life and optimal performance in the demanding tasks of firefighting.

INFOREST TOOL VS WOODEN HANDLE

	ITEM	INFOREST TOOL	WOODEN HANDLE
HANDLE	MATERIAL	Fiberglass	Eucalyptus Wood
	DURABILITY	HIGH	NORMAL
	ANTI-SLIP GRIP	HIGH	NORMAL
	RESISTANCE	HIGH (it does not wear out, break, or splinter)	LOW
	VISIBILITY	HIGH	LOW
	MEASUREMENTS	1,20 and 1,50	1,20
	UNIVERSALITY	With Derki/Mc Leod Hoe/Sickle	____
	ACCESSORIES	Lock with hanging hole	____
	CERTIFICATION	Dielectric test (resistance + insulation) >50 Kva	N/A
HEAD	MATERIAL	Boron Steel, machined and treated	Hardox
	DESIGN	Flat plate> It allows the use of the perimeter edge on both sides	Curved

INF

DERKI COMBINED RAKE

Its main advantage is **versatility**. It combines functions of tools such as the Pulaski, the McLeod rake, the axe, and the brush rake.

It is used to **cut, dig, and remove soil**. While it is mostly used in indirect or combined attack, it can also be used in direct attack supported by water or fire if flame height allows.

MATERIAL:
Boron Steel

LENGTH:
1200 mm

WEIGHT:
2.2 Kg

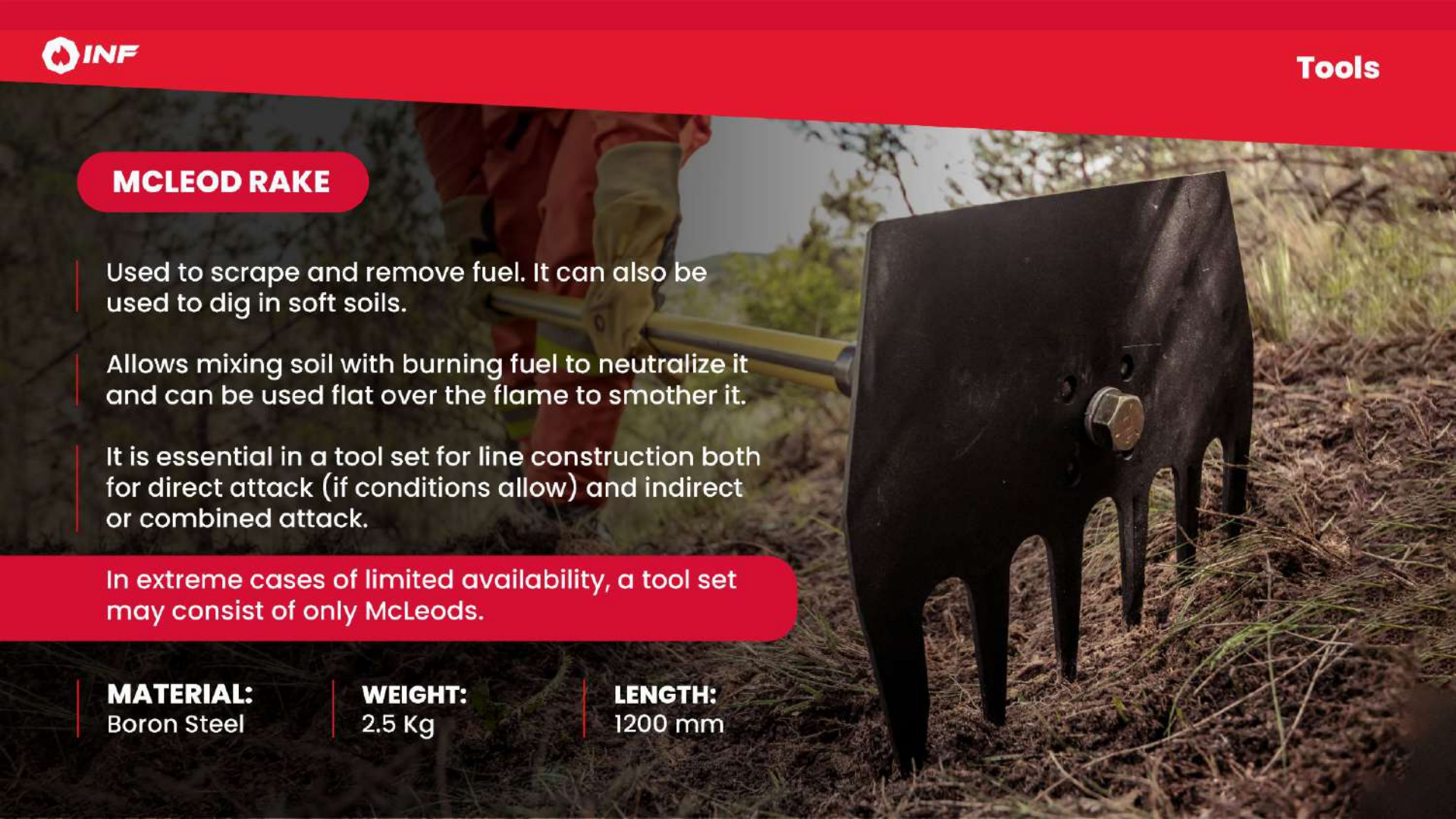
MCLEOD RAKE

Used to scrape and remove fuel. It can also be used to dig in soft soils.

Allows mixing soil with burning fuel to neutralize it and can be used flat over the flame to smother it.

It is essential in a tool set for line construction both for direct attack (if conditions allow) and indirect or combined attack.

In extreme cases of limited availability, a tool set may consist of only McLeods.



MATERIAL:
Boron Steel

WEIGHT:
2.5 Kg

LENGTH:
1200 mm

FOREST RAKE

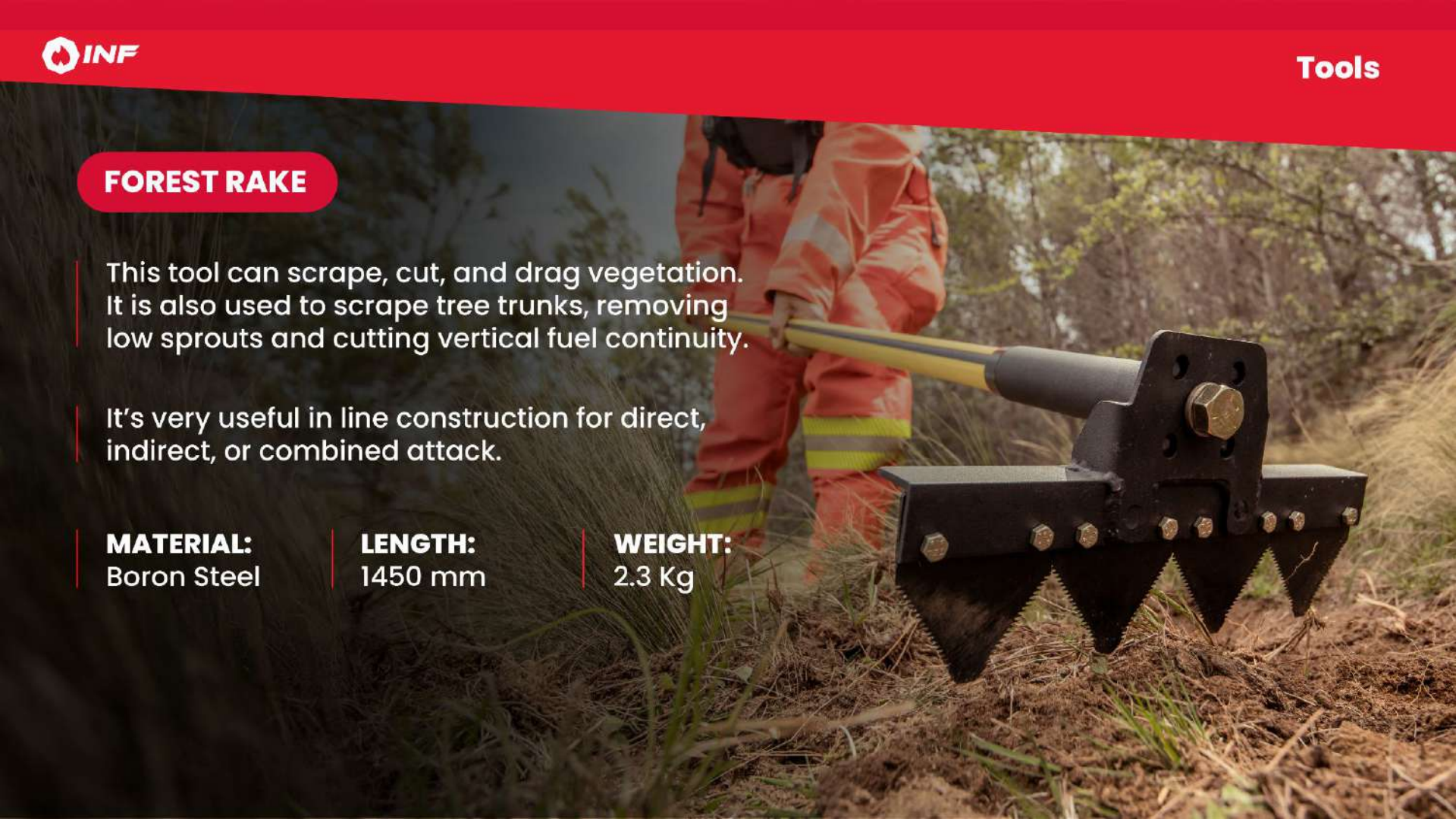
This tool can scrape, cut, and drag vegetation. It is also used to scrape tree trunks, removing low sprouts and cutting vertical fuel continuity.

It's very useful in line construction for direct, indirect, or combined attack.

MATERIAL:
Boron Steel

LENGTH:
1450 mm

WEIGHT:
2.3 Kg



TRIANGULAR HOE

Used to **cut, dig, scrape, loosen soil, and cut roots.**

This tool is also used in **building defense lines.** Since the objective is to reach mineral soil, it is **essential in the sequence of tool use.**

When attempting to suppress flames with soil using the forest shovel, this tool **facilitates loosening the soil** to then be thrown with the same shovel.

MATERIAL:
Boron Steel

LENGTH:
1200 mm

WEIGHT:
2.2 Kg

ADDITIONALLY: It is easily disassembled, making it easier to transport, even for helitransport.

HILARA FORESTRY HOE

NEW

The blade is designed with two transverse working angles of 15° and one longitudinal angle of 25°, providing an excellent working position, moving more material (soil, stones, branches, etc.) with less effort, facilitating the creation of fire lines and soil movement.

TECHNICAL SPECIFICATIONS:

MATERIAL:
Boron Steel, 1.2 m

COLOR:
Textured black

WEIGHT:
2,3 kg.

LENGTH:
1,2 m

HEIGHT:
0.202 m

WIDTH:
0.197 m

FOREST SHOVEL

It is a **multifunctional tool**, used in all attack techniques: it can dig, scrape down to mineral soil, and with its lateral edges **can cut fuel**. It can also serve as a **fire beater**.

It can also be used to **smother flames** by throwing soil at their base.

It is perhaps **the most used and versatile** tool until the appearance of combined tools.

MATERIAL:
Boron Steel

LENGTH:
1200 mm

WEIGHT:
2.3 Kg

FORESTRY SHOVEL WITH FIBERGLASS HANDLE

NEW

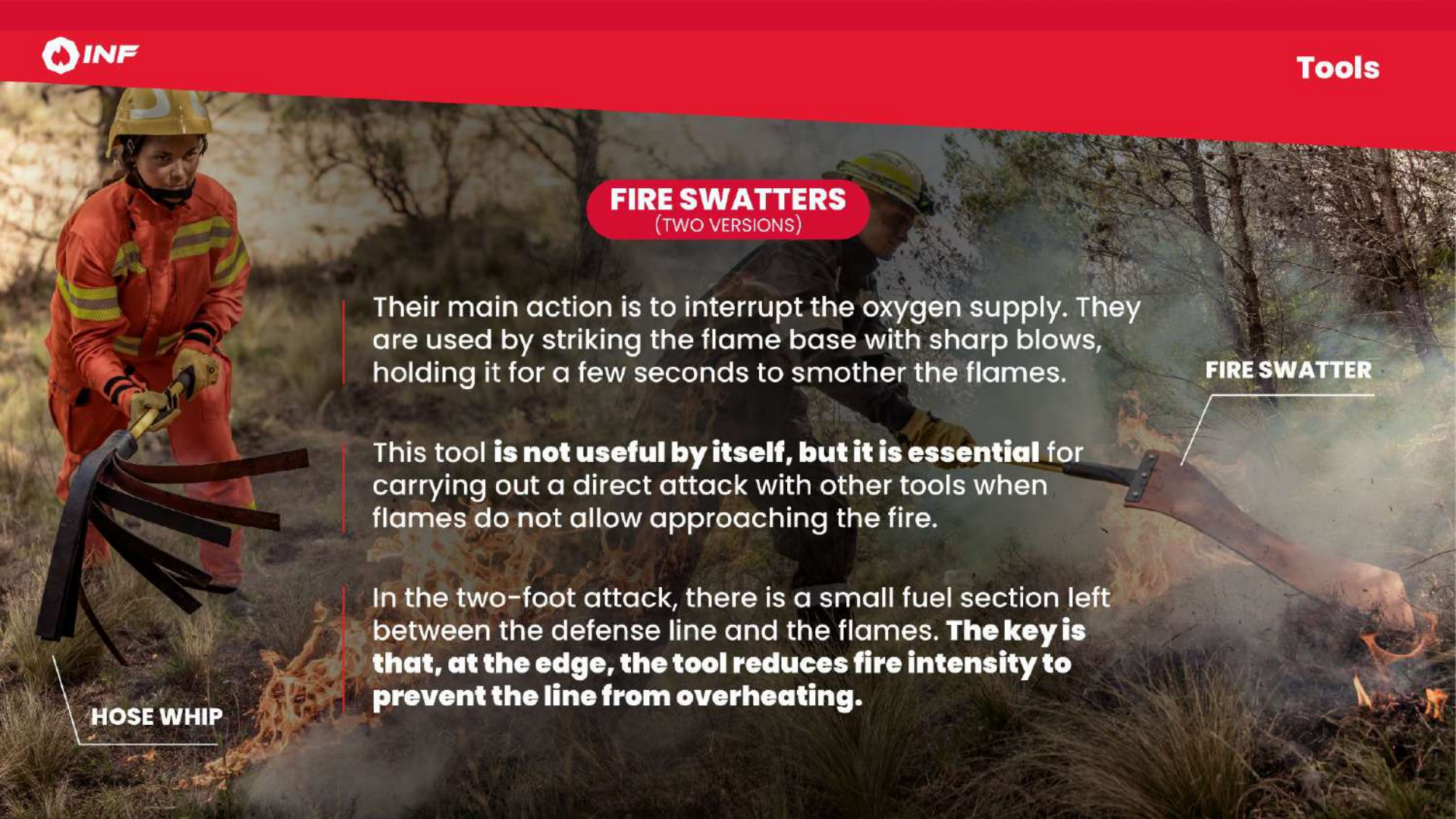
Used for opening and widening firebreaks, digging, and removing vegetation.

Removes combustible material and helps interrupt fire propagation.

CERTIFICATIONS
It complies with the United States Forest Service regulations.

WEIGHT:
2,3 kg.

LENGTH:
1,3 m



FIRE SWATTERS
(TWO VERSIONS)

Their main action is to interrupt the oxygen supply. They are used by striking the flame base with sharp blows, holding it for a few seconds to smother the flames.

This tool **is not useful by itself, but it is essential** for carrying out a direct attack with other tools when flames do not allow approaching the fire.

In the two-foot attack, there is a small fuel section left between the defense line and the flames. **The key is that, at the edge, the tool reduces fire intensity to prevent the line from overheating.**

FIRE SWATTER

HOSE WHIP

TELESCOPIC ALUMINUM FIRE SWATTER

Made of a metallic handle finished with a self-extinguishing rubber paddle or beater.

TELESCOPIC HANDLE

MATERIAL: aluminum

RUSTPROOF

Screw-type telescopic mounting system

COLOR: red, for more visibility

Exceptional break resistance

OUTER DIAMETER: 30 mm.

INNER DIAMETER: 25 mm.

Bend recovery

PULASKI

Used in **building a defense line** for **indirect attack**, to **open a path** ahead when vegetation is very dense, or to access the combat area if the chosen tactic is **direct attack**.

In the **mop-up stage**, it is used to eliminate medium-thickness vegetation and scrape the ground.

PULASKI

MATERIAL:
1045 Steel

LENGTH:
920 mm

WEIGHT:
2.7 Kg

AXE END: Used to cut branches, roots, and thin trees, and also to scrape surfaces.

ADZE END: Used to loosen soil or dig.

BIG JOHN PULASKI

NEW

Unlike the traditional forged Pulaski, this model incorporates a head made of Hardox 450 plates, providing greater wear resistance, sharper edges, and easier maintenance.

TECHNICAL SPECIFICATIONS:

WEIGHT:
2,100 kg.

WIDTH:
330 mm

LENGTH:
930 mm.

AXES

DOUBLE-BIT AXE

SPLITHAMMER AXE

Used to open firebreaks, remove obstacles, and build defense lines. Its design allows fast and efficient cutting of branches, logs, and dense vegetation, helping eliminate available fuel and slowing fire spread.

Essential tools in direct and indirect attack maneuvers, providing versatility and effectiveness in complex and hard-to-access environments.

MATERIAL:
Steel

LENGTH:
1450 mm

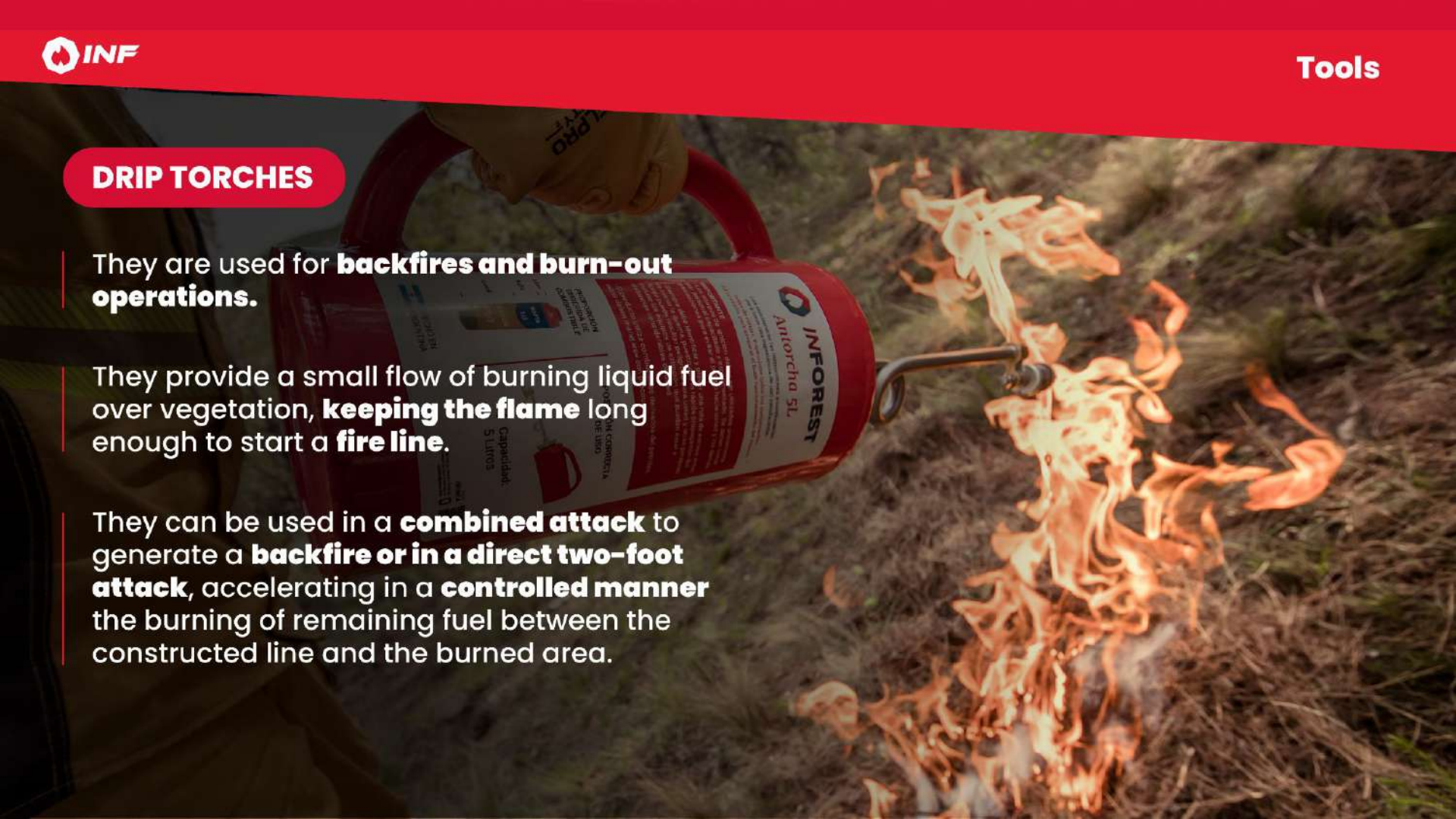
WEIGHT:
2.6 Kg

DRIP TORCHES

They are used for **backfires and burn-out operations.**

They provide a small flow of burning liquid fuel over vegetation, **keeping the flame** long enough to start a **fire line**.

They can be used in a **combined attack** to generate a **backfire or in a direct two-foot attack**, accelerating in a **controlled manner** the burning of remaining fuel between the constructed line and the burned area.



DRIP TORCHES

2 Versions

1 LITER

- **Available in two versions: with and without handle**
- Easy to disassemble
- Lightweight
- Easily integrated into the Day Pack backpack system

5 LITER

- Easy to disassemble
- It allows long extensions of burning without refueling

MACHETES

2 Versions

30 cm machete

50 cm machete

Used to cut grass, wood, and branches. Useful for initial clearing to create access during firefighting.

Although rarely used for actual combat, their main advantage is that, due to their compact size, they can be used as a “secondary tool.”

MATERIAL:
Rolled Steel

STRUCTURAL TOOLS

BONUS

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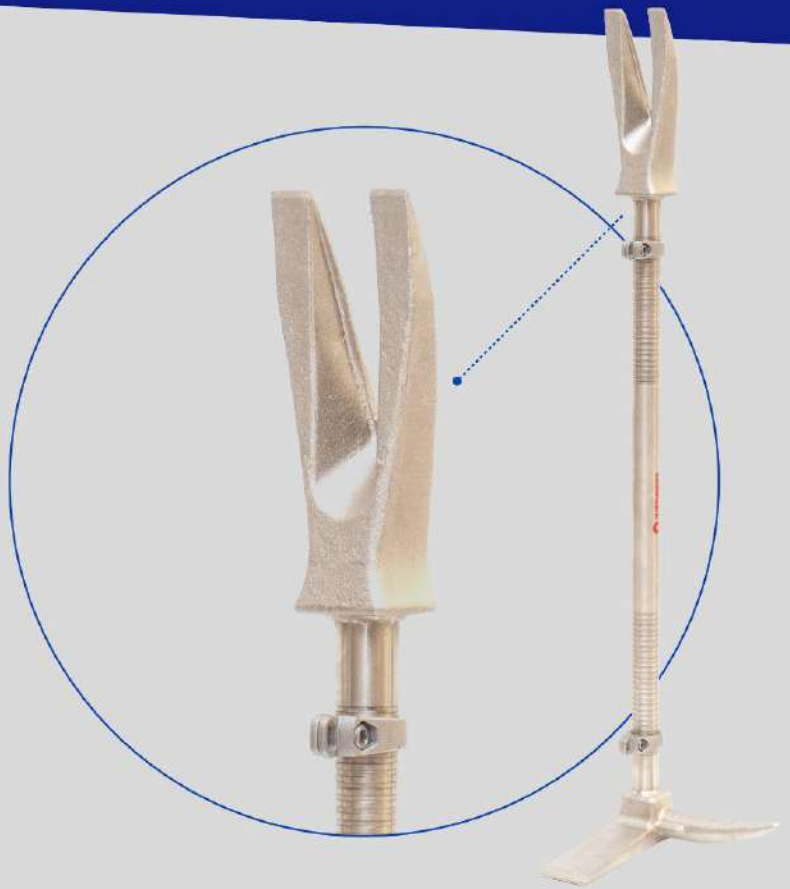
FORCIBLE ENTRY HALLIGAN

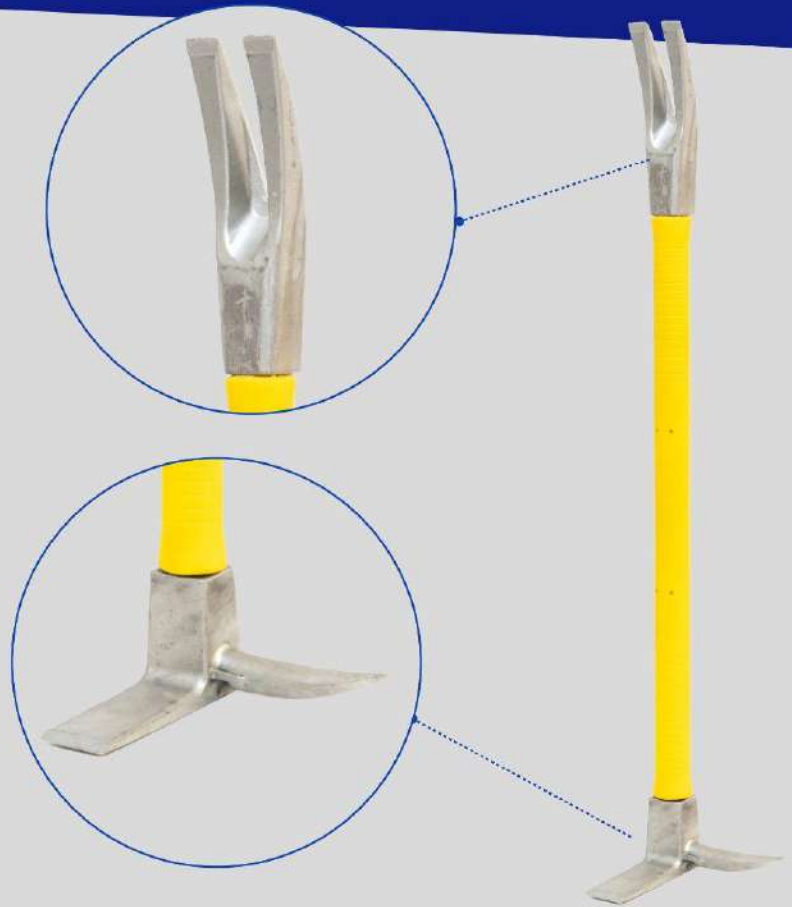
Multi-purpose pry bar designed for prying, twisting, cutting, forcing, or striking. Features a claw or fork, a blade (wedge or adze), and a conical pick, especially useful for quickly opening various types of doors or valves.



FORCIBLE ENTRY HALLIGAN WITH FIBERGLASS HANDLE

NEW

Multi-purpose pry bar for prying, twisting, cutting, forcing, or striking. Features a claw or fork, a blade (wedge or adze), and a conical pick—especially useful for quickly opening various types of doors or valves. Equipped with a fiberglass handle.



SPLITHAMMER AXE + HALLIGAN

LIGHT SPLITHAMMER AXE

One of the ideal tools for cutting, breaching, and striking.

The axe head, made of forged and heat-treated steel, combines edge hardness (50–55 RC) with eye ductility (30–35 RC), ensuring strength, reduced vibration, and user comfort.

Its butt end can be used for striking, providing greater penetration, or functioning as a maul.

PIKE POLE

A tool used in structural fires to remove, hook, push, break, or clear burning sections.

Enables breaking openings, pulling down ceilings, and removing fuel.

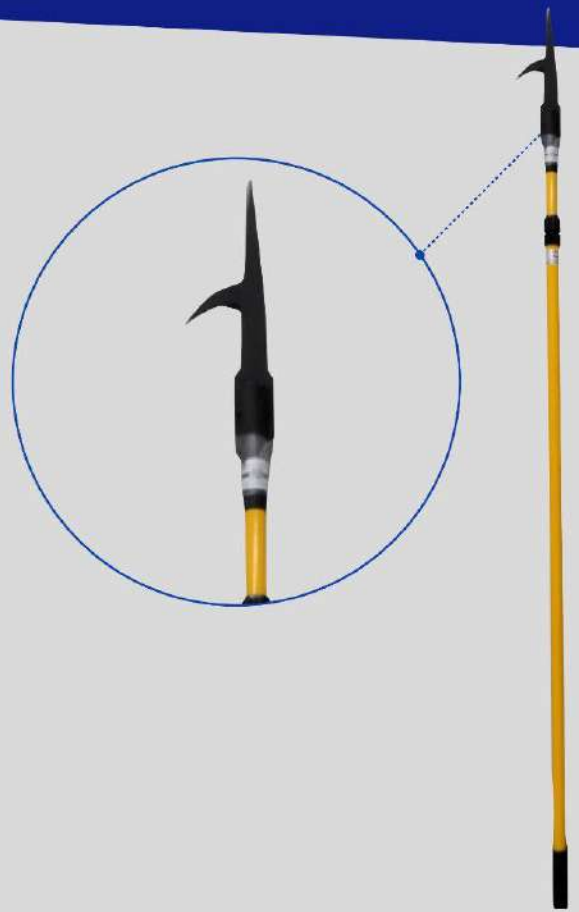
MEASURES:
2,1 m y 3 m

Certificate of diaelectric resistance

TELESCOPIC PIKE POLE

Designed for removing, hooking, pushing, breaking, or clearing in fire-affected areas. Facilitates access, material removal, and cooling during emergency operations. Allows breaking openings, pulling down ceilings, removing fuel, etc.

Extendable from 2,4 m to 4 m



FORCED ENTRY TOOL

Personal-size multipurpose rescue and forcible entry tool, designed for forcing doors and windows, prying and twisting locks and latches, light repairs, nail removal, gas shut-off, metal cutting, and chipping.

TWO MODELS:
1 Standard Claw
2 Cutting Claw

WATER EQUIPMENT

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LEADERS IN WILDLAND FIRES

WATER BACKPACKS

Used to carry water to the fire line and spray it at the base of the flames. Acts directly on the heat source.

This element can be combined with a communication tool, offering greater comfort, safety, and security in transporting this equipment.

Ideal equipment to reduce fire intensity, allowing approach for direct attack.

WATER BACKPACKS

DUAL-ACTION NOZZLE

Stainless steel nozzle.

Equipped with a movable handle on the main barrel to facilitate grip.

Generates a full jet with a reach of up to 12 m, and a mist with a reach of up to 3 m.

Minimal maintenance.

WATER BACKPACKS

3 Models

Quick-coupling
WATER BACKPACK

- Exterior:Polyamide with PU coating
- Interior: Waterproof PVC bladder
- Brass connection valve with 360° rotation

CAPACITY: 22 L

Mapache
WATER BACKPACK

- Top filling port
- Front and side pockets for carrying gear
- 3 adjustable fastening systems: waist belt, chest strap, and adjustable shoulder straps

CAPACITY: 25 L

light
MOCHILA DE AGUA

- Made of a PVC bag.
- More economical version.
- 360° swivel brass connection valve.

CAPACITY: 20 L

MAPACHE BACKPACK VS TRADITIONAL BACKPACK

ITEM	MAPACHE BACKPACK	TRADITIONAL BACKPACK
CAPACITY	25 Liters	20 Liters
SHAPE	Semi-rigid square (maintains shape when filled)	Flat (loses shape when filled)
FILLING	Top (1 person)	Side (2 people)
COUPLING	Quick 360 degree swivel	Quick 360 degree swivel
MANUAL NOZZLE	Stainless steel – double action	Double-action brass
WEIGHT	2,5 kg.	2,7 kg.
COMFORT	Water breakers	No baffles
POCKETS & ACCESSORIES	Front with MOLLE system and torch holders on sides	Front pocket only
CERTIFICATION	NFPA 701 (Flame-retardant fabric)	N/A
ELECTRIC NOZZLE	X	X

BATTERY-POWERED NOZZLE SYSTEM

NEW

Designed for mobile firefighting applications and operational support in wildfires. With energy autonomy, it allows work without connection to the power grid. Compatible with Inforest water backpacks.

DESIGN AND MATERIALS

Compact and lightweight, weighing 1.3 kg. Operates with two rechargeable lithium-ion batteries and includes a standard charger.

Reaches a maximum pressure of 24 bar with a flow rate adjustable between 140 l/h and 230 l/h.

The kit includes a carrying bag, lance extension, 4-in-1 nozzle, adapter, and charger.

NOZZLES

NOZZLE 309

1" (25 mm) **Inlet**
Flow: 37 to 115 LPM

NOZZLE 301

1" (25 mm) **Inlet**
Flow: 37 to 115 LPM

NOZZLE 360

1" (25 mm) **Inlet**
Selectable flows:
19-37-90-150 LPM.

Adjustable cut-off and up to 4 different flows.

NOZZLE 366

1.5" (38 mm) **Inlet**

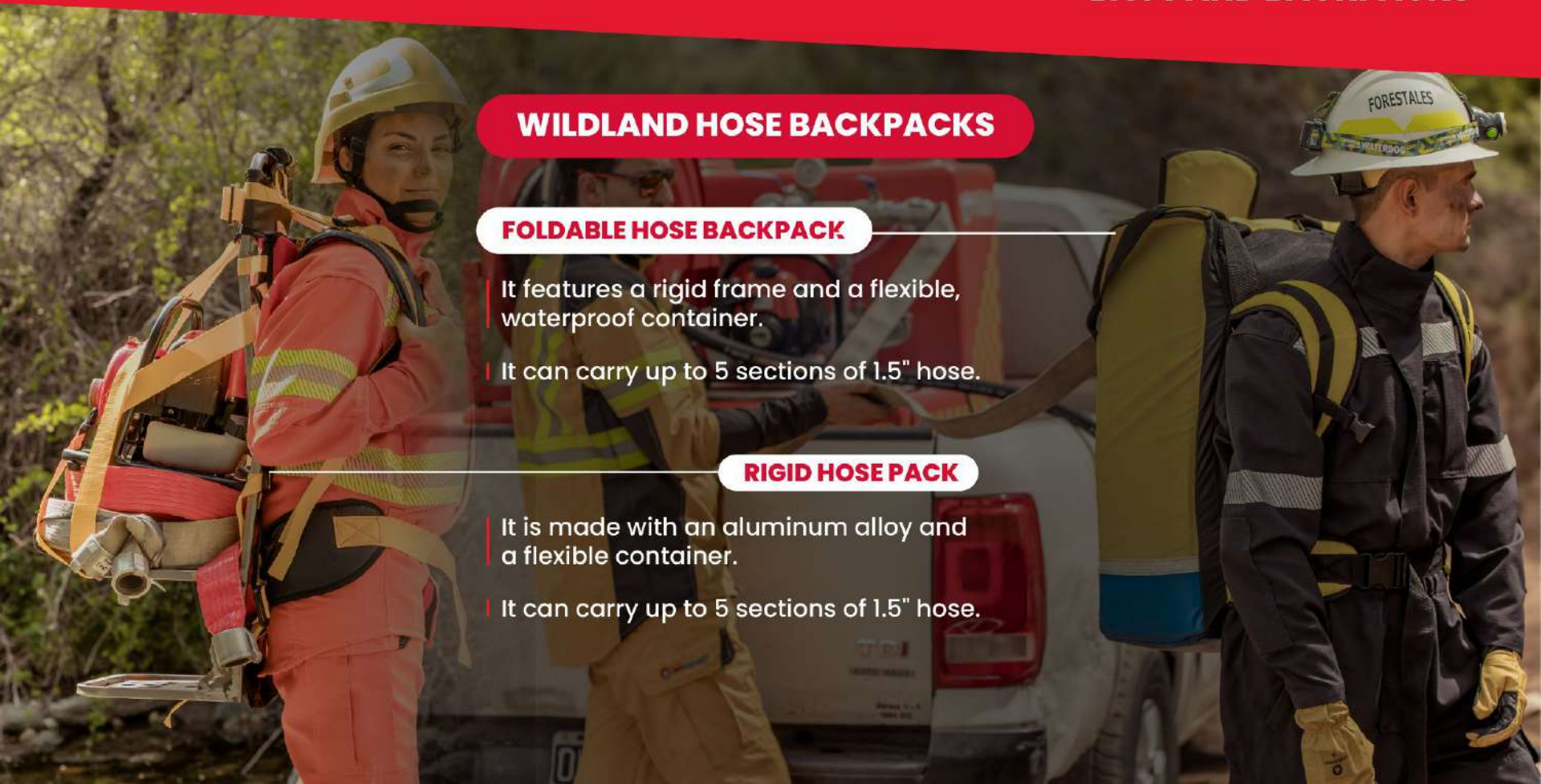
Selectable flows:
115-230-360-475 LPM

It allows the effective application of AFFF foam agent.

BAGS AND BACKPACKS

INFOREST

LEADERS IN WILDLAND FIRES



WILDLAND HOSE BACKPACKS

FOLDABLE HOSE BACKPACK

- It features a rigid frame and a flexible, waterproof container.
- It can carry up to 5 sections of 1.5" hose.

RIGID HOSE PACK

- It is made with an aluminum alloy and a flexible container.
- It can carry up to 5 sections of 1.5" hose.

INF

BAGS AND BACKPACKS

DAY PACK

ES

CR

- It is designed to carry equipment and supplies throughout 24-hour work shifts.
- It features an ergonomic harness with adjustable height and circumference.
- It is manufactured under ISO 9001:2015 standards.

TWO MODELS

DAY PACK ES

OPTIONAL EXTRA ACCESSORIES

REMOVABLE COMPARTMENT FOR SHELTER HOLDER

AUXILIARY BAG

HYDRATION BACKPACK

Dimensions without harness:	35 cm height (+/-5%) 45 cm width (+/-5%) 30 cm depth (+/-5%).

OXYGEN ESCAPE SYSTEM

NEW

USES

Portable oxygen system designed for firefighters during escape operations and protection in wildfires. Can be integrated into the hydration backpack, ensuring ease of transport and quick access in critical situations. Provides 5–8 minutes of air, depending on the user's breathing volume.

DESIGN AND MATERIALS

- Cylinder made of carbon fiber and 7075 aluminum.
- Capacity: 0.6 L
- Working pressure: 30 MPa / 300 BAR / 4,500 PSI
- Compact, lightweight design for efficient integration into the hydration backpack, ensuring mobility in the field.

HYDRATION BACKPACK

USES

Designed for transporting essential equipment in emergency and firefighting operations. Carries oxygen cylinders, two 1-liter drip torches, a fire shelter case, and a hydration water bag, ensuring practicality in the field.

DESIGN AND MATERIALS

- The system consists of three modules:
- Waist pack
- Main backpack
- Oxygen cylinder pouch
- (Currently under development)

GEAR BACKPACKS

TREKKING 14 L BACKPACKS

PLAN 30 L BACKPACKS

TREKKING 30 L BACKPACKS

TREKKING 60 L BACKPACKS

COMMUNICATION CHEST HARNESSES

Essential for carrying communication, geolocation, and meteorological devices.

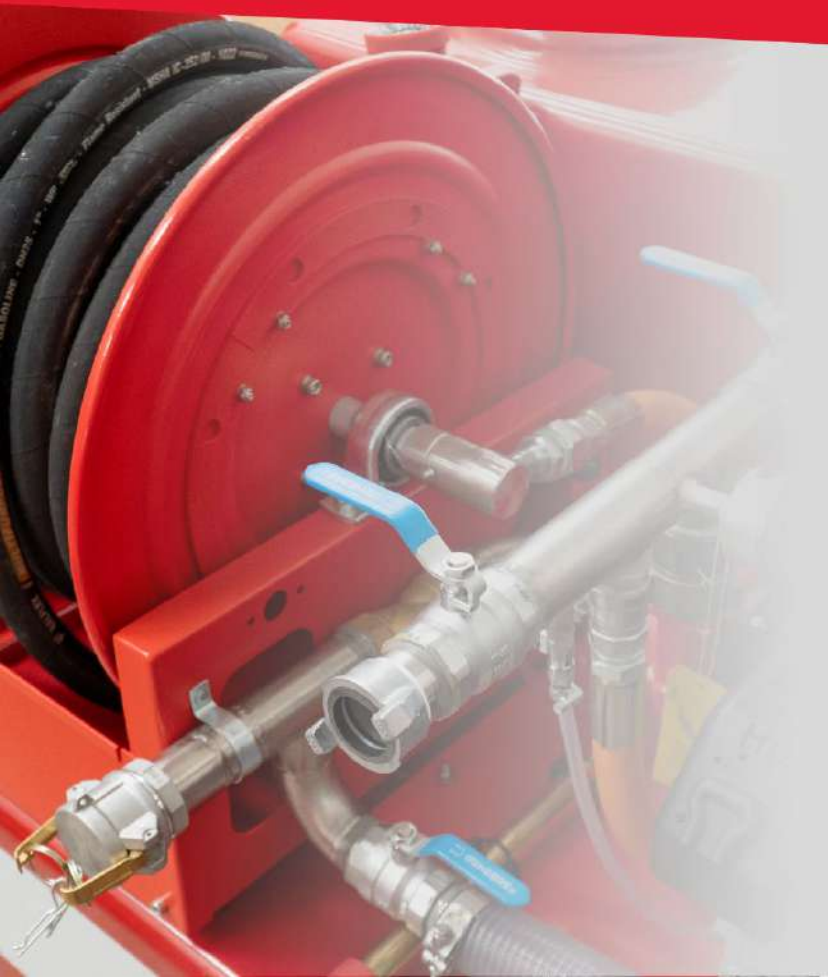
The harness is adjustable in 4 directions and features front and rear reflective straps that enhance user visibility in the dark.

TECHNICAL PRESENTATION

BLOCK 2

INFOREST

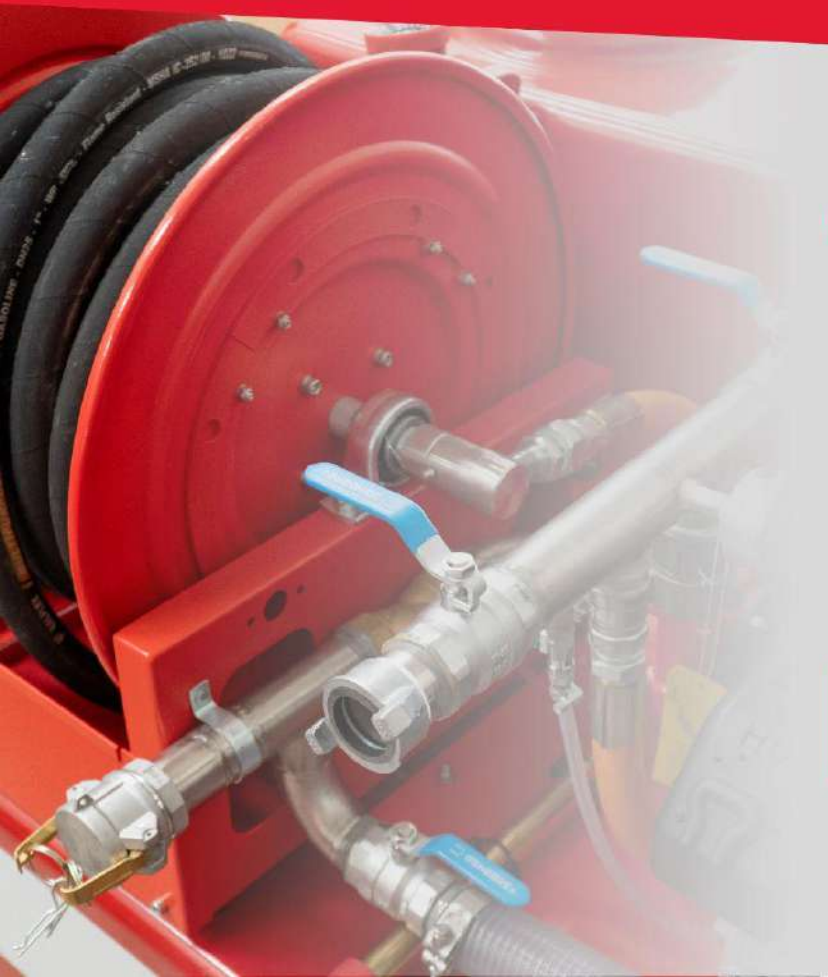
LEADERS IN WILDLAND FIRES



INFOREST HOSE REEL

- It is equipped with a multi-position automatic locking system.
- It accommodates up to 50 meters (164 ft) of hose with a diameter of up to 1".
- It is finished with a textured, oven-cured polyester paint, ensuring long-lasting durability even under harsh weather conditions.

WEIGHT:	WIDTH:	LENGTH:	HEIGHT:
21 Kg	64 cm	53 cm	60 cm



Greater robustness, stability, and functionality.

- Prevents warping of side covers.
- Reduces hose kinking at the reel outlet.
- Simplified vehicle/platform mounting process.
- Eliminated edges that could cause hose wear by friction.
- Improved manual hose retrieval system.
- Simplified reel lock system for working position.
- Enhanced aesthetics and overall product finish.

Despite almost unchanged unit weight, total weight reduced due to lighter hose.

Design allows for larger-capacity reels without losing stability.

INFOREST
LÍDERES EN INCENDIOS FORESTALES

MERCEDES TEXTILES LIMITED
Innovation delivered.™

Mercedes Textiles
FORESTRY HOSES

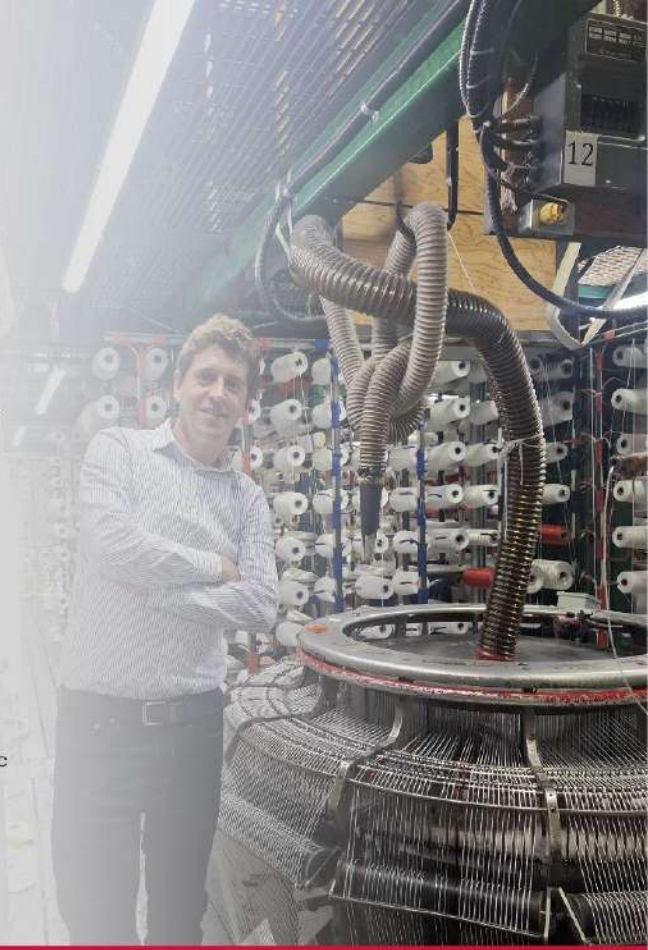
Maximum Flow where you need it most

UNIQUE MERTEX® LINING PROCESS

MERTEX LINING PROCESS	TRADITIONAL PROCESS
Inner tube made of thermoplastic polyurethane (TPU) >Extended service life.	Polyethylene inner tube – shorter service life
The hose is woven simultaneously with the inner extrusion, producing a smoother inner tube.	Extruded polyethylene tube + woven textile ⊠ pressed & steam-vulcanized under pressure
Smoother inner tube >60% less pressure loss	Higher roughness & TPU deformation ⊠ increased pressure loss

Our Mertex ® Process Synthetic Hose Lining (smooth surface = less friction/greater flow)

Example: Competitor's Synthetic hose lining (rough surface = less flow)



Hose loom with "extruder" experience up to 66% greater flow

MERCEDES TEXTILES LIMITED

INFOREST

DIFFERENT HOSES *FOR ALL WILDLAND SCENARIOS*

FORESTGUARD II®

Lightweight.

FIREBOSS®

Most rugged | Resistance to dragging and abrasion.

FIREBREAK II®

Control and self protection. Wheeping hoses.

INFOREST

MERCEDES TEXTILES LIMITED

FORESTGUARD II®

Premium all synthetic single jacket.

A tough, versatile, and lightweight forestry fire hose, ideal for rapid deployment in demanding conditions. Constructed with a premium all-synthetic single jacket for durability and strength.

Ideal for forestry fire attack, urban interface fires, grass fire kits, and mop-up hose.

Size	**1" (25 mm)**
Weight (30,5m)	**3,6 kg**
Service Pressure	**20 bar**
Proof Pressure	**40 bar**
Burst Pressure	**70 bar**

INFOREST

MERCEDES TEXTILES LIMITED

FIREBOSS®

Ideal as a first length off the pump.

Most rugged with lowest friction loss, all synthetic non-percolating forestry hose, standard with yellow Permatek HP™ treatment.

Ideal for the first length off the pump and as wildland brush fire attack hose, wildland truck/ATV fire hose, and cottage and home wildfire protection hose.

Size	**1" (25 mm)**
Weight (30,5m)	**4,1 kg**
Service Pressure	**20 bar**
Proof Pressure	**40 bar**
Burst Pressure	**70 bar**

INFOREST

MERCEDES TEXTILES LIMITED

FIREBREAK II®

Worldwide, the #1 choice for weeping hose.

The Hydro-Wick weeping process uses a special weave to allow a controlled amount of water to seep out and self-protect the hose with significantly less pressure loss.

Ideal for wildland brush fire attack hose, urban interface, grass fire kits, cottage and home wildfire protection, and mop-up hose.

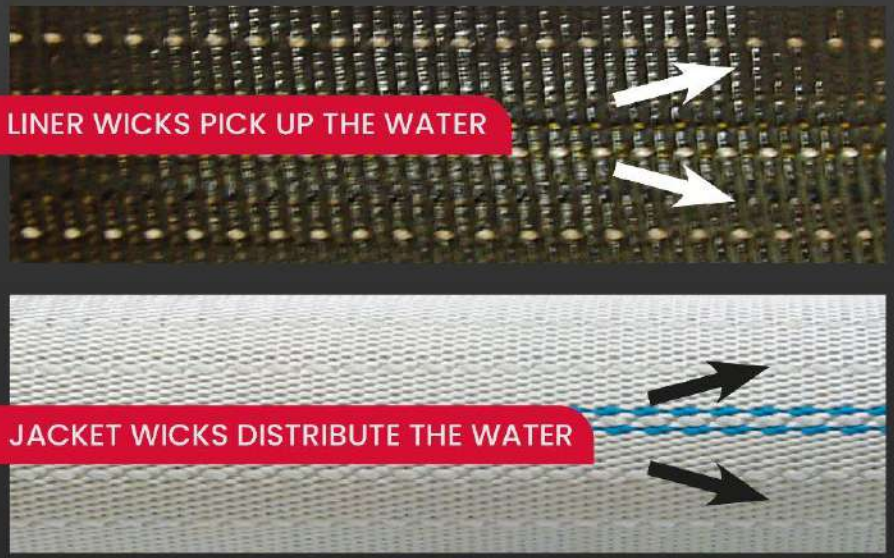
Percolates through small holes › dries › repeats

Size	**1" (25 mm)**
Weight (30,5m)	**3,6 kg**
Service Pressure	**20 bar**
Proof Pressure	**40 bar**
Burst Pressure	**60 bar**

INFOREST

MERCEDES TEXTILES LIMITED

HYDRO-WICK® WEEPING PROCESS "WICK EFFECT"



- Hydro-Wick® › significantly lower pressure loss vs. competitors
- Virtually clog-free operation
- Wet out achieved up to 300% faster than needle-prick method
- Wet jacket gives excellent heat/fire protection (ideal for forest fires)

INFOREST

MERCEDES TEXTILES LIMITED
Innovation delivered.

MYTI-FLO®

16 / 19 mm hoses

*To be used with water thief from the principal line

*Brass Nozzle

Size	**3/4" (19 mm)**
Weight (30,5m)	**0,8 kg**
Service Pressure	**17 bar**
Proof Pressure	**35 bar**
Burst Pressure	**50 bar**

INFOREST

MERCEDES TEXTILES LIMITED

QUICK CONNECT COUPLING (QC)

The only End to End Quick Connect (1/4 turn) System From 3/4" (19 mm) through to 2 1/2" (63 mm).

FEATURES AND BENEFITS:

- Sexless system (not male / female).
- The fastest Rapid connect and disconnect in the market - (¼ turn, saves time in emergencies).
- The easiest coupling to handle with gloves.
- The most reliable: No threads or swivel to damage.
- Can attach hose sizes from ¾" to 2 ½" (19 mm to 63 mm)
- Hose can be rolled from either end.
- For low, medium and high pressure and forestry or industrial aplications.

Only 2 coupling sizes available for all hoses (1,5" or 38mm) and (2,5" or 63mm).

ASPECT	QUICK CONNECT COUPLING	STORZ COUPLING
CONNECTION SPEED	Faster: only 90° turn	Slightly slower: 120–180° rotation
EFFORT REQUIRED	Very low, wrist turn only	Higher, may need spanner
HANDLING WITH GLOVES	Very easy	Possible but needs more force
RISK OF JAMMING	Lower, simpler mechanism	Higher, dirt can block claws
SEAL QUALITY	Less Pressure loss	Higer pressure loss
OPTIONALS	> Red Arrow for Dark Situations > Possible Id	
COLORS	Grey Allow / Blue Anodized / Gold	

WATER TANKS

SELF-SUPPORTING TANK

Foldable and easy to transport.
No supporting structure required.
Capacity: from 1,000 to 10,000 liters.

FOLDABLE TANK

Built with an aluminum frame and hinged joints for easy folding and transportation.
Capacity: from 1,000 to 10,000 liters.

DISMOUNTABLE AUSTRALIAN TANK

Ideal for storing large volumes of water.
Fully dismountable and reusable.
Capacity options: 100,000 l / 60,000 l / 40,000 l / 35,000 l

FOLDABLE STORAGE TANK

Designed to preserve stored water in optimal conditions, free from contamination.
Capacity: from 500 to 50,000 liters.

INFLATABLE WATER TANK

Designed for temporary water storage during firefighting operations and other activities requiring field supply.

Their foldable and portable design allows quick setup in any location, ensuring efficient refilling and optimizing logistics.

AVAILABLE SIZES

- Ø 3 m x 0,8 m height: 5,000 L (usable capacity approx. 4,250 L)
- Ø 3 m x 2 m height: 14,000 L (usable capacity approx. 10,600 L)
- Ø 4,2 m x 0,8 m height: 11,000 L (usable capacity approx. 9,000 L)

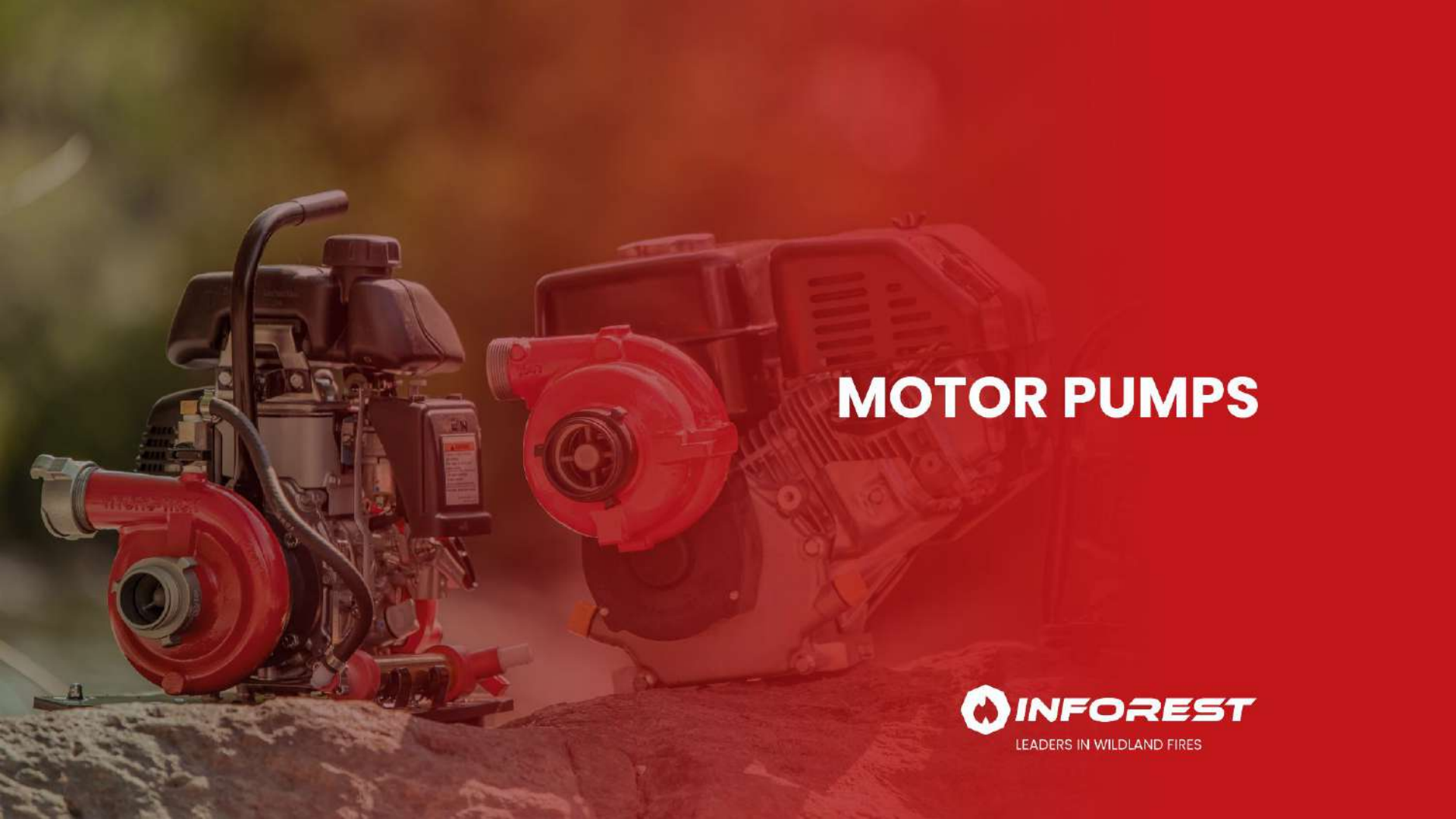
FIREFLYER™ HELICOPTER TANK

- Aerodynamic Hydro-Wick tanks designed to transport water, foam, or potable water to remote areas by helicopter.
- Flexible, compact container made of PVC-coated fabric.

THREE VERSIONS

WEIGHT AND DIMENSIONS

Model	Capacity	Weight (full)	Weight (empty)
70FLTH60	72 U.S. Gal	273 L 612 lbs / 278 Kg	13.0 lbs / 5.9 kg
70FLTH110	132 U.S. Gal	500 L 1115 lbs / 507 Kg	17.0 lbs / 7.7 kg
70FLTH210	210 U.S. Gal	950 L 2116 lbs / 960 Kg	22.0 lbs / 10.0 kg



MOTOR PUMPS

INFOREST

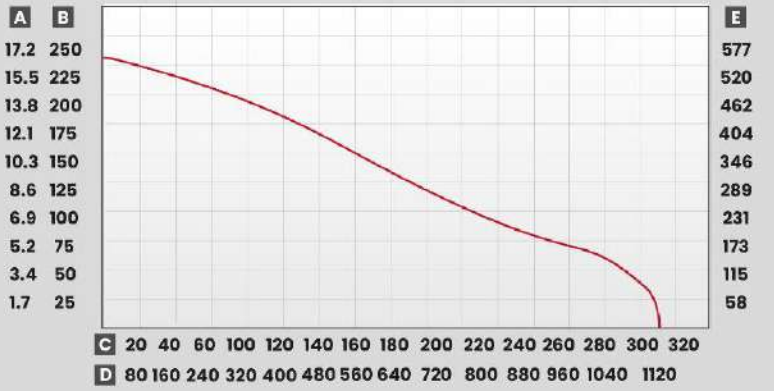
LEADERS IN WILDLAND FIRES


WICK
ULTRAFLO

WICK® ULTRAFLO 23HP

NEW

Performance standard correction as per
SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB



A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

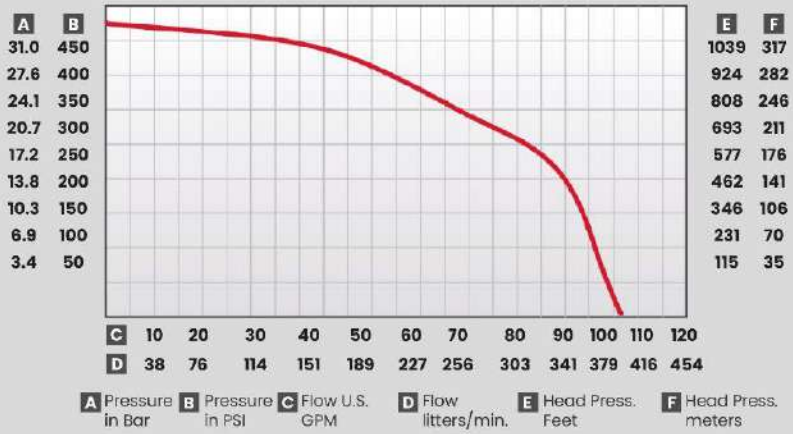
WEIGHT & DIMENSIONS		
Length	32.5"	82.5 cm
Width	19.5"	50 cm
Height	24.0"	61 cm
Weight	163 lbs	74 kg
Suction	3.0" NPSH	76 mm
Discharge	2.5" NPSH	64 mm

HIGH FLOW

- 2 Stage Pump
- 1100 liters per minute
- 18 / 20 or 23 hp engines - Electric Start
- Integral fuel tank + hand primer connected
- Pressure gauge

WICK® XP4-23 HIGH PRESSURE

Performance standard correction as per
SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB



A Pressure in Bar B Pressure in PSI C Flow U.S. GPM D Flow litters/min. E Head Press. Feet F Head Press. meters

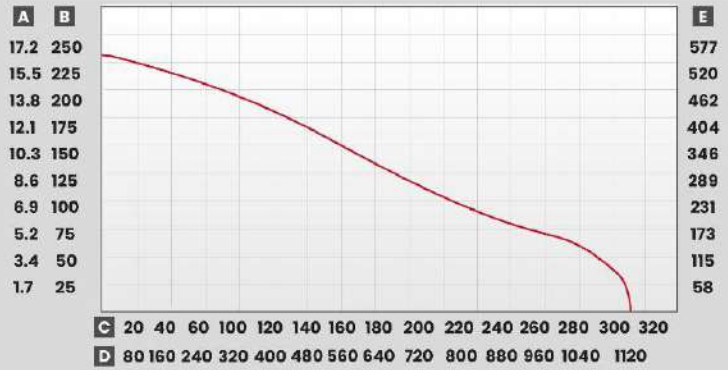
WEIGHT & DIMENSIONS		
Length	32.0"	81 cm
Width	19.5"	50 cm
Height	18.5"	47 cm
Weight	137 lbs	62 kg
Suction	2.0" NPSH	50 mm
Discharge	1.5" NPSH	38 mm

- 4 Stage Pump
- High Pressure
- 30 bars

WICK® ULTRAFLO 23HP

WEIGHT & DIMENSIONS		
Length	32.5"	82.5 cm
Width	19.5"	50 cm
Height	24.0"	61 cm
Weight	163 lbs	74 kg
Suction	3.0" NPSH	76 mm
Discharge	2.5" NPSH	64 mm

Performance standard correction as per
SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB



A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WICK® XP4-23 | PORTABLE 4 STAGE HIGH PRESSURE FIRE PUMP

WEIGHT & DIMENSIONS		
Length	32.0"	81 cm
Width	19.5"	50 cm
Height	18.5"	47 cm
Weight	137 lbs	62 kg
Suction	2.0" NPSH	50 mm
Discharge	1.5" NPSH	38 mm

Performance standard correction as per
SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB

A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

4 VERSIONS

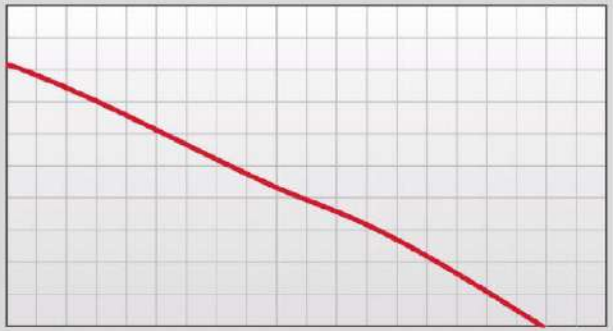
ENGINE OPTIONS:

- 13 HP Honda
- 14 HP B&S
- 18 HP B&S
- 23 HP B&S

WEIGHT & DIMENSIONS		
Length	8,3 cm	38,75"
Width	40,6 cm	25,0"
Height	48,3 cm	23"
Weight	24,1 kg	74 Lbs
Suction	50 mm NPSH	1½ NPSH
Discharge	38 mm NPSH	1½ NPSH

WICK® SI 250 FIRE PUMP

Performance standard correction as per
SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB



A	B	E	F
15.5	225	520	158
13.8	200	462	141
12.1	175	404	123
10.3	150	346	106
8.6	125	289	88
6.9	100	231	70
5.2	75	173	53
3.4	50	115	35
1.7	25	58	18

C	10	20	30	40	50	60	70	80	90	100
D	38	76	114	151	189	227	265	303	341	379

A Pressure in Bar B Pressure in PSI C Flow U.S. GPM D Flow litters/min. E Head Press. Feet F Head Press. meters

FAST ATTACK EQUIPMENT

WICK® 375 | PORTABLE 4 STAGE HIGH PRESSURE FIRE PUMP

WEIGHT & DIMENSIONS		
Length	22,75"	57.8 cm
Width	14.25"	36.2 cm
Height	14.25"	36.2 cm
Weight	56.0 libras	25.4 kg
Suction	2.0" NPSH	50 mm
Discharge	1.5" NPSH	38 mm

Performance standard correction as per SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB

A	B	E	F
27.6	400	924	282
24.1	350	808	246
20.7	300	693	211
17.2	250	577	176
13.8	200	462	141
10.3	150	346	106
6.9	100	231	70
3.4	50	115	35

C	10	20	30	40	50	60	70	80	90	100
D	38	76	114	151	189	227	256	303	341	379

A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WICK® 250

WEIGHT & DIMENSIONS		
Length	15.3"	39 cm
Width	13.0"	33 cm
Height	12.5"	31.8 cm
Weight	31 libras	14.1 kg
Suction	2" NPSH	50 mm NPSH
Discharge	1 ½"	38 mm NPSH

Performance standard correction as per SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB

A	B	E	F
15.5	225	520	158
13.8	200	462	141
12.1	175	404	123
10.3	150	346	106
8.6	125	289	88
6.9	100	231	70
5.2	75	173	53
3.4	50	115	35
1.7	25	58	18

C	10	20	30	40	50	60	70	80	90	100
D	38	76	114	151	189	227	265	303	341	379

A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WICK® 100M | ULTRA-LIGHTWEIGHT HIGH-PERFORMANCE FIRE PUMP

WEIGHT & DIMENSIONS		
Length	13.5"	34 cm
Width	11.5"	29 cm
Height	12.0"	30.5 cm
Weight	18.6 libras	8.4 kg
Suction	1.5" NPSH	38 mm
Discharge	1.5" NPSH	38 mm

Performance standard correction as per SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB

A	B	E	F
6.9	100	231	70
6.2	90	208	63
5.5	80	185	56
4.8	70	162	49
4.1	60	139	42
3.4	50	115	35
2.8	40	92	28
2.1	30	69	21
1.4	20	46	14
0.7	10	23	7

C	10	20	30	40	50	60	70	80
D	38	76	114	151	189	227	265	303

A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WICK® 100 4HM | ULTRA-LIGHTWEIGHT, MULTI-POSITION HIGH PERFORMANCE FIRE PUMP

WEIGHT & DIMENSIONS		
Length	14.0"	36 cm
Width	11.0"	28 cm
Height	11.75"	30 cm
Weight	17.5 lbs	7,9 kg
Suction	1.5" NPSH	38 mm
Discharge	1.5" NPSH	38 mm

Performance standard correction as per SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB

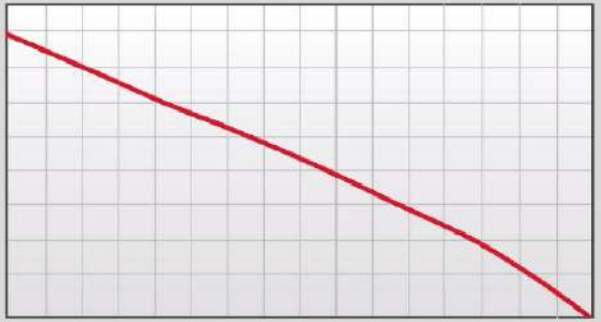
A	B	E	F
6.9	100	231	70
6.2	90	208	63
5.5	80	185	56
4.8	70	162	49
4.1	60	139	42
3.4	50	115	35
2.8	40	92	28
2.1	30	69	21
1.4	20	46	14
0.7	10	23	7

C	10	20	30	40	50	60	70	80
D	38	76	114	151	189	227	265	303

A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WICK® FT-200-4B | PORTABLE FLOATING HIGH-PRESSURE FIRE PUMP

Performance standard correction as per SAE J1349; 60° F / 15.5° C; Baro 29.92 in. / 101.3 mB



A Pressure in Bar | B Pressure in PSI | C Flow U.S. GPM | D Flow litters/min. | E Head Press. Feet | F Head Press. meters

WEIGHT & DIMENSIONS		
Length	98,4 cm.	28,75"
Width	63,5 cm.	25,0"
Height	58.4 cm.	23"
Weight (Dry)	33,6 kg.	73 Lbs
Discharge	38 mm.	1 ½ NPSH

Standard NPSH threads, other discharge threads available

MOTOR PUMP COMPARISON

	WICK 100	WICK 100-4	WICK 250	WICK SI250	WICK 375	XP4	ULTRFLOW
Impellers	1	1	3	3	4	4	2
Engine	2 stroke	4 stroke	2 stroke	4 stroke	2 stroke	4 stroke	4 stroke
Hp Engine	2,5 hp	2,5 hp	7 hp	7 hp	10 hp	13-14-18-23hp	18-23 hp
Pressure Max (Bar)	7	7	15	15	27	31	15
Flow Max (LPM)	265	265	340	340	380	390	1100
Fuel Tank	Integrated	Integrated	Auxiliary	Integrated	Auxiliar	Integrated	Integrated
Weight (kg)	8 kg	8 kg	15 kg	25 kg	25 kg	70 kg	62 kg

WICK FIRE PACK

- Kit including a load backpack, portable fire pump, and hoses with lance, designed for wildland firefighting.
- Can be deployed by one person using two working techniques.

WILDFIRE HOSE

PORTABLE FIRE ATTACK KIT

A practical and portable solution that allows fire suppression equipment to be mounted on any vehicle (UTV, pickup, trailer), with a flexible tank of various capacities. After use, it can be disassembled and stored in its transport bag, returning the vehicle to its original condition.

COMPONENTS

- Inflatable water tank (340/410/570/1120 L).
- Suction hose with adapters.
- 25 m of Forestguard Mercedes hose, 25 mm (1") or 38 mm (1.5").
- Attack nozzle.

OPTIONAL:

- Wick 250 Motor Pump – 12 bar pressure / 340 L/min.
- Protective floor mat (for use outside the pickup bed).

SPRINKLERS

A heavy duty model that is designed for use with standard forestry fi re pumps. The high performance sprinkler is excellent for use on prescribed burns and on exterior building as well as fi re line protection. Supplied with splitter type nozzle. Mounting holes are provided and standard models are fitted with GHT swivel female threads for use with our standard Myti-Flo® ¾"/19 mm hose and standard water thief.

	Part#	Description
A	70FLSP-R	Sprinkler Head and Spike
B	70FLSP-MAN	Sprinkler Head and Spike (Manitoba model)
A + C + E	70FLSPKITNH	Sprinkler Kit. Sprinkler Head and Spike, 15'/4.6m of Myti-Flo Hose, & NH Water thief
A + C + E	70FLSPKITPS	Sprinkler Kit. Sprinkler Head and Spike, 15'/4.6M of Myti-Flo Hose, & NPSH Water thief
A + D + E	70FLSPKITQC	Sprinkler Kit. Sprinkler Head and Spike, 15'/4.6M of Myti-Flo Hose, & QC Water thief
A + D + E	70FLSPKITQCDC	Sprinkler Kit. Sprinkler Head and Spike, 15'/4.6M of Myti-Flo Hose, & QC (die cast) Water thief

ROOT SOAKER

A heavy duty model designed for use with standard forestry fi re pumps. Standard models are fitted with GHT swivel female threads for use with our Myti-Flo® ¾"/19mm hose and water thief. Designed to fight against reignition from underground hot spots. Penetrates soil to "wet-out" subterranean hot spots with its' high pressure nozzles. High pressure ball valve provided for fl ow control and shut-off.

Foam hand grips 10'/3M of coupled Myti-Flo®¾"/19mm hose included.

Part#	Description
70FLRS	Root Soaker. 45" / 1.14M total length, c/w 10'/3M of Myti-Flo coupled hose


WICK®
PORTABLE PUMPS


WICK
FLAGPOLE SPRINKLER SYSTEM

HELIKIT

- Only air-transportable system that integrates a water tank, enabling immediate use without waiting for resupply.
- Auxiliary 2400 L tank, total water capacity 2800 l.
- Independent leveling system for each support leg.
- Equipped with standard scene and beacon lighting.
- Can serve as an operations base, with power generator and optional meteorological sensors, battery chargers, compressors, etc.

HELIKIT

USES

Designed for helicopter and pickup transport, enabling rapid deployment of a 5–6 firefighter crew in areas difficult to access by land.

Compact modular design.

Dimensions: 1.2 m × 1.2 m × 1.2 m

Weight: approx. 700 kg

OPERATIONAL AND STRATEGIC BENEFITS

- **Rapid deployment:** operational within 10 minutes of arrival.
- **Initial autonomy:** main and auxiliary tanks allow immediate action while awaiting reinforcements.
- **Team safety:** high-quality, weather-resistant materials.
- **Compatibility & customization:** supports solar panels, compressors, chargers, satellite communications, drones, etc.

HELIKIT INCLUDES

TANKS:

- Fixed main tank with a 400-liter capacity, made of FRP (Fiberglass Reinforced Polyester).
- Collapsible refill tank, which can be placed on the Kit or at a remote location.

MOTOR PUMPS:

- Main WICK XP4-13 (60 kg, with built-in fuel tank).
- Secondary portable WICK 100M (9 kg) for relay pumping.

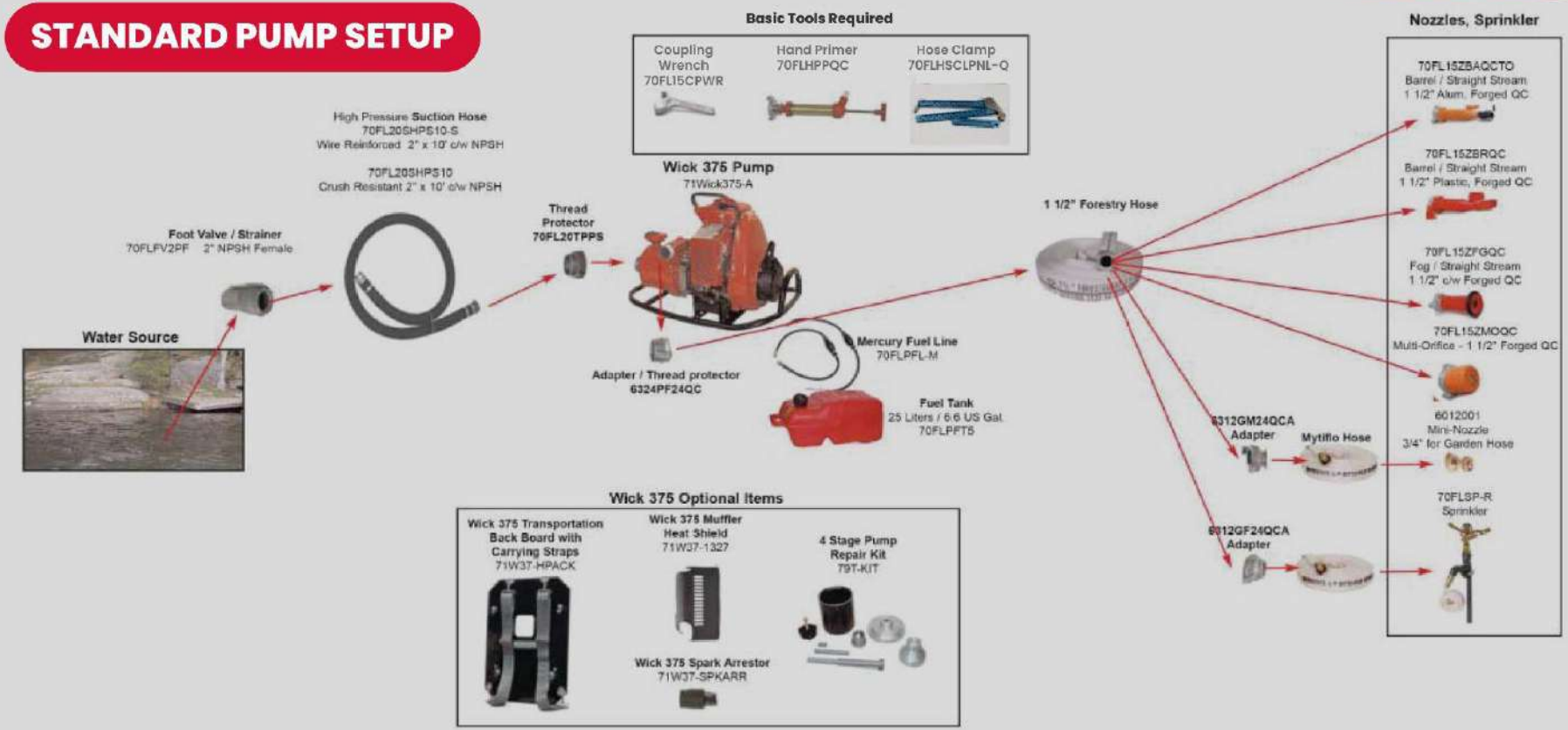
HOSES:

- 10 hoses, 1" and 1.5", 25–30 m each (dry and wet), with couplings as required by the client.

TOOLS AND ACCESSORIES:

- Specialized hand tools (Fire Beater, Derki, Pulaski, McLeod, Forest Shovel)
- 3 water backpacks
- First aid kit
- Safe storage for fuel, drinking water, fixed and 360° nozzles, portable generator, solar panels, batteries, handheld radios, etc.

STANDARD PUMP SETUP

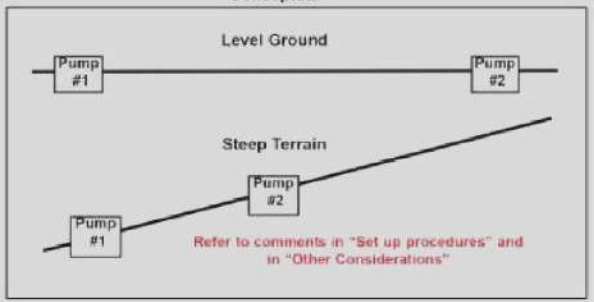


TANDEM FIRE PUMP TYPICAL LAYOUT

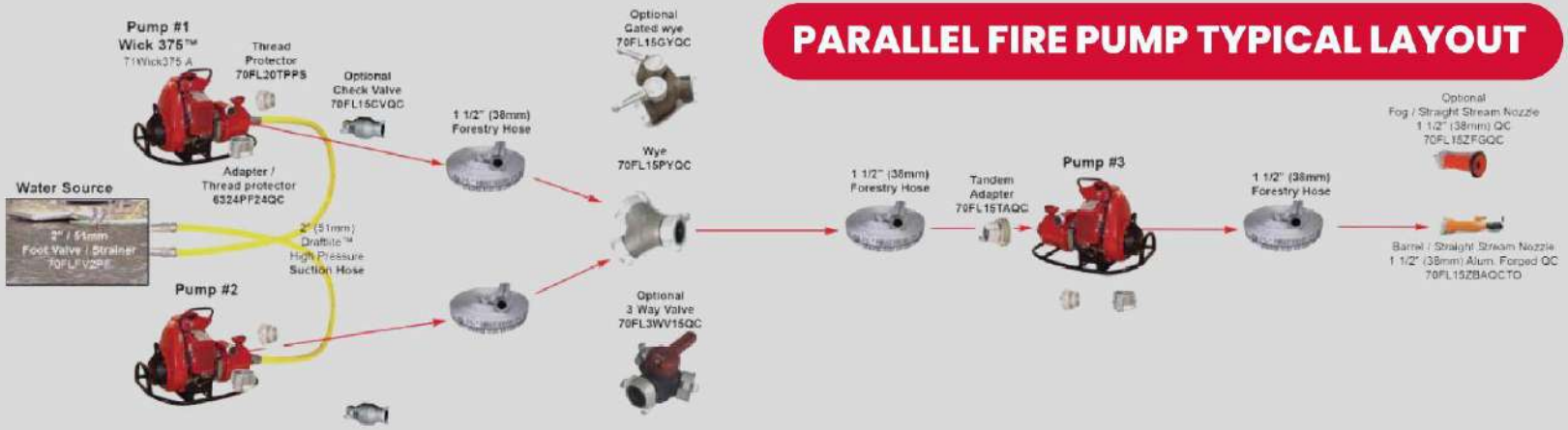
Wick 375 Optional Items

Basic Tools Required

Conceptual

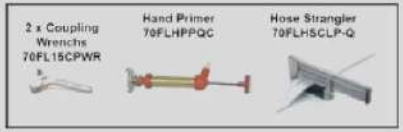


PARALLEL FIRE PUMP TYPICAL LAYOUT

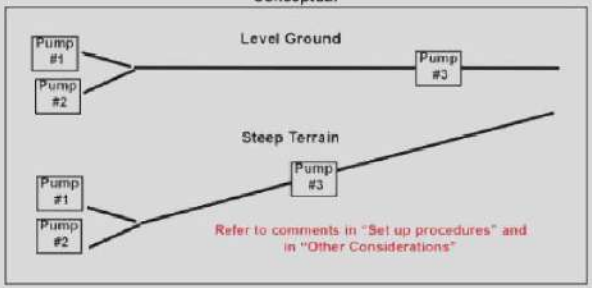


Wick 375™ Optional Items

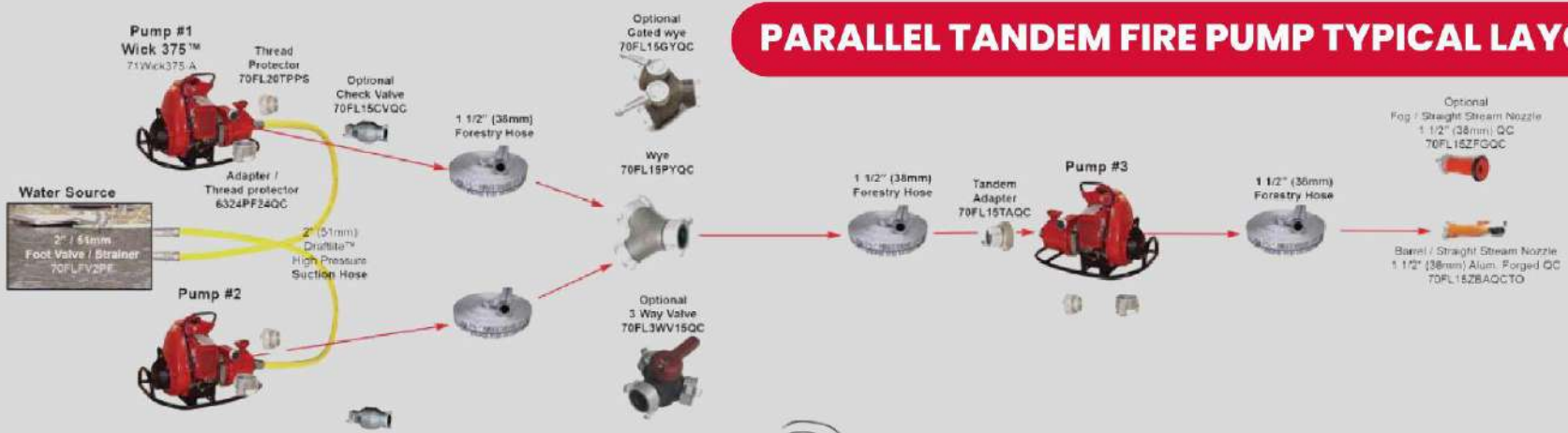
Basic Tools Required

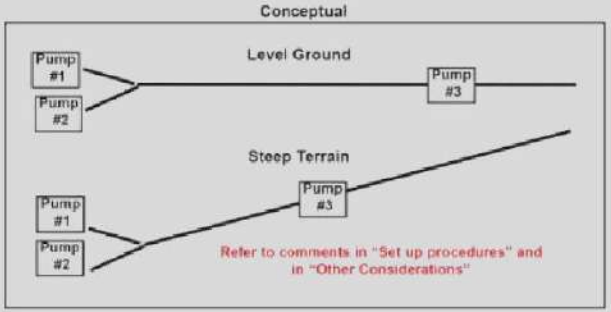


Conceptual



PARALLEL TANDEM FIRE PUMP TYPICAL LAYOUT






TECHNICAL PRESENTATION
BLOCK 3
INFOREST
LEADERS IN WILDLAND FIRES

PERSONAL PROTECTION

Fire-retardant clothing

INFOREST

LEADERS IN WILDLAND FIRES

PERSONAL PROTECTION

The firefighter represents the most important link in the wildfire suppression chain.

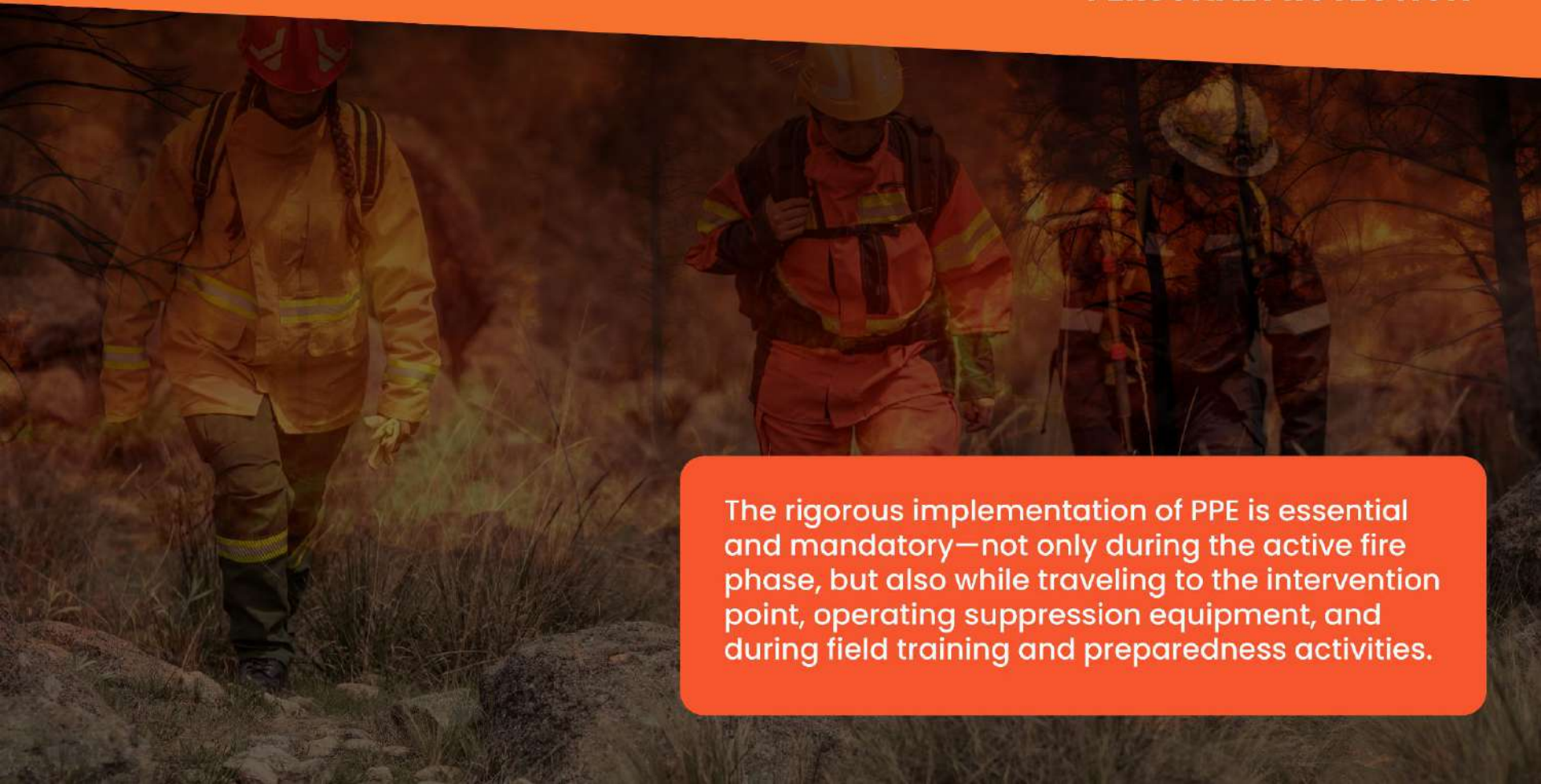
Personal Protective Equipment (PPE) plays a **critical role** in wildfire operations:

It forms the **foundation of fire protection**.

It **helps mitigate the inherent risks** of the operational environment (wildlife, sharp or abrasive elements).

It supports the safe handling of specialized tools and equipment.

PERSONAL PROTECTION



The rigorous implementation of PPE is essential and mandatory—not only during the active fire phase, but also while traveling to the intervention point, operating suppression equipment, and during field training and preparedness activities.

EURO XVI WILDLAND FIRE SUIT

It is an essential components of personal protection for combating wildfires.

Its importance lies in protecting the torso, arms, and legs from exposure to radiant heat, flames, sparks, abrasion, and cuts—hazards inherent to firefighting in natural environments.

Key features for selecting proper gear include construction with tear- and cut-resistant materials, as well as comfort.

INF

FIRE-RETARDANT CLOTHING

EURO XVI WILDLAND FIRE SUIT


NEW COLORS

EURO XVI SHIRT

FABRIC COMPOSITION

OUTER LAYER:

93% Meta-aramid
5% Para-aramid
2% Antistatic fiber (carbon fiber)

INNER LAYER:

FR Lenzing

Quick-release closure for emergencies

High or low collar with triple Velcro fastening

Mounting points for flashlight and radio

Heat-transferred flame-resistant reflective tape, 360° visibility

Adjustable Velcro straps

Glove-carrying loops

Napoleon-style pockets

EURO XVI WILDLAND FIRE PANTS

FABRIC COMPOSITION

OUTER LAYER:

93% Meta-aramid
5% Para-aramid
2% Antistatic fiber (carbon fiber)

INNER LAYER:

FR Lenzing

Slanted hip pockets, cargo-style side pockets, and rear patch pocket

Boot cuffs with triple Velcro adjustment

High-rise waist for enhanced lower back protection, includes adjustable belt

Reinforcements in high-stress areas

Heat-transferred flame-resistant reflective tape, 360° visibility

EURO XVI HEAVY JACKET

EURO XVI FIREFIGHTER FOOTWEAR

Certified under EN 15090:2012

MATERIALS

2 mm leather upper, lined with hypoallergenic, breathable, water-repellent fabric.

Anti-slip rubber sole with excellent tread for uneven terrain.

Padded leather upper collar

Reinforced side panel with puncture-resistant fabric

Closure system with flame-retardant laces.

EURO XVI FIREFIGHTER FOOTWEAR

Two models:

HIGH-LEG

Height 27 cm / Weight 2 kg.
Sizes 35–49.

LOW-LEG

Height 19 cm / Weight 1.8 kg.
Sizes 36–48

HEAD PROTECTION

Designed for respiratory protection, it is highly effective in preventing the inhalation of smoke, dust particles, and serves as a thermal barrier while absorbing sweat.

Key elements for face protection and as the first barrier for the airways.

BANDANA

Mouth and neck protector made of flame-resistant aramid fibers, with a tubular construction.

MATERIALS

INTERLOCK 180gr/m2

50% Meta-aramid – 50% FR Lenzing

HOOD

Flame-resistant "monk-style" hood that protects the head and neck, shielding the user from burns caused by radiant heat, flames, and hot particles.

MATERIALS

INTERLOCK 180gr/m2

50% Meta-aramid – 50% FR Lenzing

WILDLAND COVER

- Designed to cover commercial masks (disposable or half-face).
- Includes air filter, provides higher heat resistance, and offers a softer skin interface.

SICOR HELMET

MATERIALS

Outer shell:

Reinforced thermoplastic with fiberglass

Inner shell:

Breathable material

PRO WILDLAND FIRE GLOVES

The use of gloves in firefighting is essential, as the hands are the primary tool of the firefighter. The absence or improper use of this equipment can lead to serious consequences.

Constant and proper use is indispensable to perform tasks efficiently and safely.

EURO XVI GLOVES

- **Outer material:** Palm, back, and knuckle protection made of special cowhide leather (approx. 1.2 mm), heat-resistant, water-repellent, and tanned to minimize shrinkage.
- **Inner lining:** 100% Kevlar tightly-knit fabric, providing thermal and mechanical resistance.
- **Insert:** Hipora moisture barrier, waterproof, windproof, breathable, and resistant to chemicals according to EN 659:2003.
- Resistance levels: (EN 659:2003)

WILDFIRE

ENTRAPMENTS

Only in USA from 1990 to 2017: 485 dead firefighter on wildfires.

WILDFIRE
ENTRAPMENTS

INF ISK Fire® Survival

In Spain, from 1980 to 2010: 187 dead firefighters on wilfires (88 of them fire trapped)

VEHICLES
LOSSES

Forest fires are on the increase throughout the world today, and no region is spared from the risk of fire (Siberia, Norway, Patagonia).

Forest fires have doubled worldwide in the last 20 years, particularly in boreal forests, 'probably' due to climate change.

VEHICLES
LOSSES

Despite the lack of statistics, there are many burnt vehicles, many of them abandoned by their users in extreme situations, others because they had no protection systems, had not been activated or were inappropriate for these cases.

THE CONCEPTION

The creators and designers of the Fire Survival kit were there and had one determination:

CREATE A SURVIVAL AREA FOR WILDFIRE FIGHTERS

THE GOAL

of Fire Survival is to:

- **Improve existing fire entrapment procedures** by adding new safe areas and increase survival probabilities
- Create a **safe fire entrapment procedure** for those who have not establish a protocol

THE GOAL

FIRE SURVIVAL is a system that provides the equipment and technical resources needed to establish a survival zone in critical situations of fire entrapment during a forest fire. It includes a safety procedure that helps to increase the probability of survival in extreme risk situations.

INF

ISK Fire® Survival

THE FIRE SURVIVAL **COMPONENTS**

- 3 equipments for saving lives of rescuers in case of wildfire entrapment.
- Protects the vehicle agains flames, heat, hot air and tires pyrolysis.
- Assures life survival for more than 20 minutes: fresh air, heat, GPS SOS, CO_2 detection.
- Reduce stress, prevents dangerous unpredictable human behaviours, chaotic reactions.
- Patented.
- Designed by firemen with entrapment experiences.
- Tested and Certified by Relevant Independent Laboratories.
- Currently used in Spain, Portugal, South America, France and Italy Wildfire Brigades.

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ISK Fire® Survival

The way to set all equipments on place creates a **safety procedure for fire entrapments.**

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ISK Fire® Survival

FS1: NOZZLE

PATENT NO. P201301149

INF

ISK Fire® Survival

THE FS1: NOZZLE

PATENT NO. P201301149

THE FS1: NOZZLE

PATENT NO. P201301149

900°C cooling

26°C inside of the shelter

Incredibly effective even when the water runs out

FS-1 : WATER SHIELD NOZZLE

Important data for each country:

Pressure FS1-LP or FS1-HP

Coupling for inlet: Storz, NH,BSP (depends on the country)

Foam mixing rate

Tilt regulator

Foam Tank: 9 liters

Jet Deflector:
Creates the DOME

Turning Water Inlet:
1" or 1.5"
Storz, NH,BSP (depends on the country)

Integrated Venturi:
Foam Mixer

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ISK Fire® Survival

THE FS2:
COLLECTIVE SHELTER

PATENT NO. P201400826

Compare to individual fire shelters:

- FS2 has clean breathable air for every person.
- Outside gases cannot go inside.
- Reduces stress as we can support our colleagues.
- Has a CO_2 gas detector.
- Has comfort light.
- Has a window to control upcoming fire.

THE FS2:

COLLECTIVE SHELTER

PATENT NO. P201400826

Direct flame contact test
INIA (MADRID)

900°C Radiation Test
Portugal

INF

ISK Fire® Survival

THE FS2:
COLLECTIVE SHELTER

PATENT NO. P201400826

Versions from 2 up to 6 persons

No contact between shelter and persons inside

INF

ISK Fire® Survival

THE FS2:
COLLECTIVE SHELTER

PATENT NO. P201400826

THE FS4:

TRUCK SIDE CURTAIN

- Protects the tire from radiation, convection and fire contact.
- Easy and quick placement.
- Delays the ignition point of the tire.
- Adaptability to all vehicles.

INF

ISK Fire® Survival

THE FS4:

TRUCK SIDE CURTAIN

| 30 seconds deployment.

INF ISK Fire® Survival

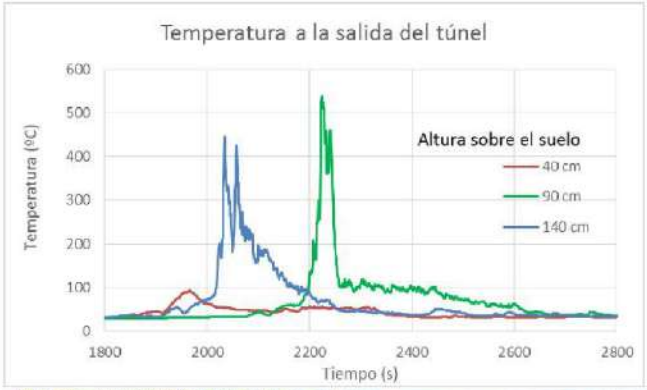
THE FIRE
SURVIVAL TESTS

All Fire Survival equipments have been:

- Tested.
- Patented.
- Certified in Relevant Independent Laboratories: Madrid (Spain), Córdoba (Spain) and Coimbra (Portugal).
- **All certifications, test results and data are available for everyone.**

3.1.2. Régimen térmico a la salida del túnel

De acuerdo con la estimación realizada en el apartado anterior, la potencia de 600 kW del frente de avance generó el régimen térmico en el aire al final del túnel que describe la Figura 8.a. Las temperaturas máximas (540 °C) se obtienen a 90 cm de altura sobre el suelo correspondiendo con los 50 cm por encima de la base de las vagonetas (Figura 8 b).



(a)

(b)

Figura 8. (a) Régimen térmico a la salida del túnel (b) Situación de los termopares y del equipo ISK a la salida del túnel

Each of our products is the **result of a continuous improvement process**, in which **user feedback is fundamental. We listen** to firefighters' experiences in the field, **refine** existing solutions, and **develop new products** that address the **real needs** of those who protect what matters most.

Behind every product, there is a purpose: to live up to those who risk everything to protect others.

INFOREST


THANK YOU
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