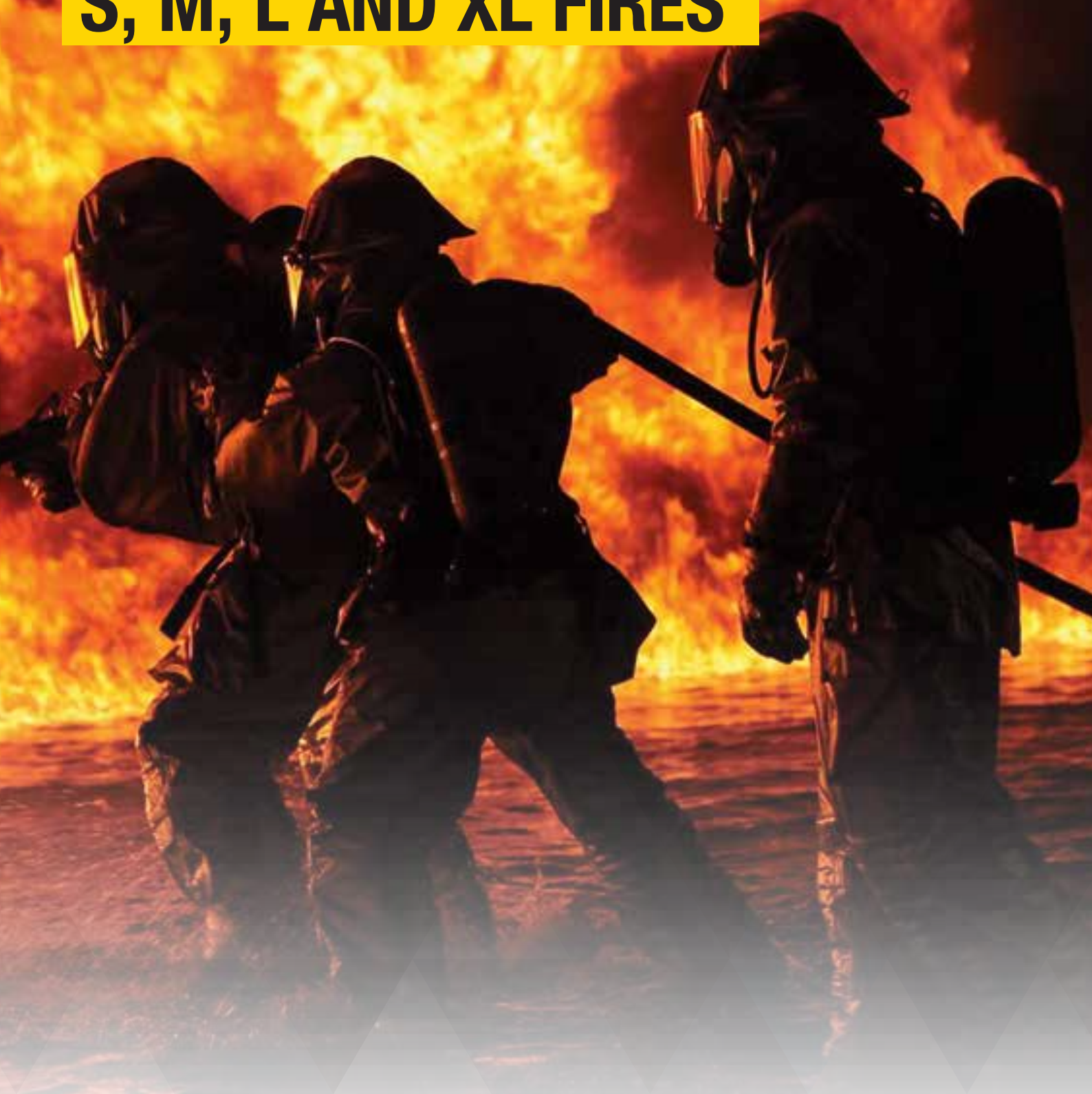




**IDEAL FOR**

**S, M, L AND XL FIRES**



**CEASEFIRE FIRE SUIT**







You've invested in some powerful fire extinguishers to protect your premises. But can you be sure this equipment will be 100% effective in a fire?

**Here's why we ask this question:**

Fires grow incredibly fast. A small spark can turn into a large fire in seconds, and into a blaze in minutes. And a blazing fire gives off massive amounts of heat and smoke, making it very dangerous, if not impossible, to approach it.

Which means that even with the right extinguisher, a fire fighter cannot get close enough to the flames to cover them effectively with the extinguishing agent. Or, if he does get closer, he risks serious injury from burns.

So, despite your investments in fire fighting equipment, your ability to fight fires is seriously hampered.

Which is precisely where Ceasefire Fire Suits play a critical role. They offer you the protection you need to get close enough to a fire to fight it effectively, without risking injury.



## WHAT GOES INTO MAKING A CEASEFIRE FIRE SUIT.

As you will see, there is an incredible amount of investment, research and design that goes into Ceasefire Fire Suits, with only the best quality materials used and strict manufacturing standards followed. This puts them several notches above virtually any other product in the market today. Three critical elements give Ceasefire Fire Suits a definite edge:





## THREE CRITICAL ELEMENTS GIVE CEASEFIRE FIRE SUITS A DEFINITE EDGE:

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### 1. Engineered from the inside out.

There are essentially two types of fire suits. Those that are made flame retardant through a chemical treatment, which coats the fabric or yarn externally with flame repelling chemicals. And those where the fabric itself is engineered to be flame retardant at a molecular level.

Obviously, Ceasefire Fire Suits are made from molecular-engineered fabric, a method that wins hands down in performance, as you will see from the comparison below.

#### CHEMICALLY TREATED SUITS

- | Not inherently flame retardant.
- | Flame retardant properties diluted by washing and wearing
- | Generates toxic gases when exposed to fire

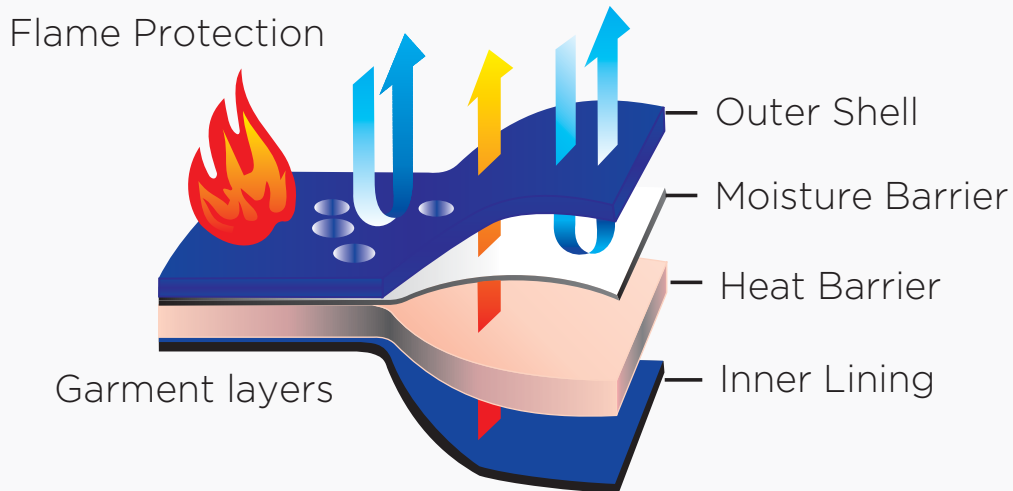
#### MOLECULAR-ENGINEERED SUITS

- | Inherently flame retardant.
- | No dilution by washing and wearing.
- | Doesn't generate toxic gases and fumes.
- | Does not burn, melt or drip



## 2. Three layers between you and danger.

Ceasefire Fire Suits are made out of not one but three protective layers, to ensure your safety. Starting from the outer layer, these are:



### LAYER 1

This is the most important layer, with the greatest exposure to heat and flames. The quality of this outer shell decides how close the fire fighter can go to the fire. Ceasefire Fire Suits always use molecular-engineered fire resistant fabrics like Nomex, Kevlar and PBI Gold, the most state-of-the-art fabrics of their kind.

### LAYER 2

A moisture barrier membrane, to protect against the intrusion of water, chemicals and viral agents, allow metabolic heat to escape and reduce overall heat stress during strenuous activities. In our case, this layer is made up of fire retardant knitted fabric with a PU membrane.

### LAYER 3

The last layer acts as a thermal barrier for inner protective lining. Thermal barrier provides a strong, secondary heat barrier. We use a mix of Nomex and Kevlar, quilted together to form a layer.

The inner protective lining which is designed to provide optimum comfort to the fire fighter by reducing surface friction and improving overall mobility. We use Nomex filament face cloth for the inner lining.

### 3. Quality Certified From End To End

As with any garment, a Fire Suit passes through many stages (and many hands) during manufacture. Spinning the yarn, dyeing and cutting the fabric, sourcing the complementary parts of the garment, from boots to gloves to helmets, and lastly, stitching and final assembly of the suit.

With so many stages in the process, there are many opportunities for slip-ups in quality. At each point, cost-cutting measures could be adopted - an obvious example is using cheaper, inferior materials in the fabric blend. These slip-ups could add up to a seriously compromised fire suit.

At Ceasefire, every single stage in the process conforms to a battery of stringent international norms. All Ceasefire Fire Suits comply with EN 469:2005 level 2 standards. There are, incidentally, brands available, which also conform to EN 469:2005, but only to the older level 1 standards.

In addition, every single vendor in the supply chain is a certified DuPont Nomex Quality Partner. Which, incidentally, is the highest certification one can have in this area.



Application for people working in Hazardous areas like Refineries, Oil & Gas, Chemical & Petrochemical Plants, Electrical Utilities, Iron & Steel and other Industrial Application.

Words lightest Aluminized Suits for fire fighting, at only 6 kg (Without SCBA, Boots and Carrying Case) and 9 kg (Without SCBA and Carrying Case)

In addition to these international quality standards, Ceasefire Fire Suits comes with the following features:

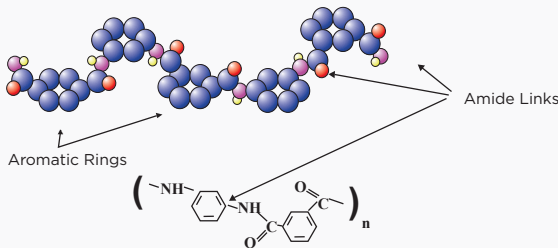
- | High Heat Resistance (as per ISO 17493) can withstand a heat level of 1000°C in flash fires for without any burning or melting and less than 5% shrinkage
- | Limited inflammability (as per ISO 15025)
- | Tensile strength of 450N (as per ISO 13934-1)
- | Seam tensile strength of 450N (as per ISO 1421:1998)
- | Residual Strength (tensile strength after exposure to flames) of 450N (as per ISO 6942)
- | 25N Tear strength (as per ISO 4674-1:2003 and ISO1397-2:2000)
- | The suits are marked with fluorescent, reflective tapes at strategic places as per EN standards.



# Nomex, Kevlar and PBI Gold: The heart of Ceasefire Fire Suits.

Here's a brief introduction to the fabrics that make Ceasefire Fire Suits so powerful:

## Nomex



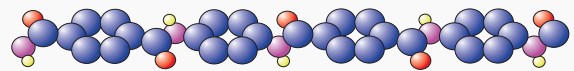
A registered trademark for a flame resistant fiber, Nomex is a polymer developed by world-leader Dupont. Its manufacture is a highly complex process, in which the polymer Meta aramid isophthalamide is poured through a sieve and emerges as a filament or strand. This is then converted into a yarn through spinning, and the yarn is used to weave the fabric.

The structure of Nomex makes it exceptionally resistant to chemicals, radiation and heat, and gives it great strength and anti-static properties. Nomex does not generate toxic gases and fumes, does not crack or break open when exposed to flames and heat, and will never burn, melt or drip. In fact, it is a self extinguishing fabric: at 380° Celsius, Nomex does not burn, but rather carbonizes.

The filament or thread of NOMEX is bone-shaped, with an air cavity that allows it to breathe better. This helps in insulation against heat and aids the evaporation of perspiration. It is also makes the fabric lightweight, despite its heavy-duty performance. Extremely resistant to general wear and tear, Nomex and is suitable for industrial laundering or dry cleaning.

Nomex is dyed through a process known as Dope Dyeing, in which the dyeing is done while the filament itself is being produced. This ensures better, long lasting colour.

## Kevlar



Also developed by DuPont, Kevlar is the registered trademark for a Para-Aramid synthetic fiber.

Extremely tough but light, Kevlar has a very high tensile strength-to-weight ratio. Because Kevlar is stiff rather than flexible, it is best used in combination with Nomex, in a mixture known as Nomex III.

## PBI Gold



PBI Gold is a blend of 40% thermal resistant PBI fibers and 60% high strength aramid. The result is a fabric which does not shrink, become brittle, or break open even under extreme heat. PBI Gold also has excellent flame resistant properties.

PBI fabric withstands the dangers associated with firefighting, arc flash, and flash fire, and provides flame protection for U.S. Army troops in Afghanistan and Iraq.

PBI Gold provides firefighters and industrial workers with superior protection and meets or exceeds every National Fire Protection Association (NFPA) requirement and EN 469 standard.

## CEASEFIRE Fire & Industrial Safety Suits

Without exaggeration, there is a Ceasefire Fire Suit to meet every possible need. Our range is extensive and comprehensive:

PRODUCT CODE: TI002184K



### POWER

Entry-level fire suits to tackle small and medium-sized fires.

PRODUCT CODE: TI000035



### ALUSTAR

Dual-mirror Kevlar fabric for proximity, bulk flammable liquids and flammable gas firefighting.

PRODUCT CODE: TI000032K



### GOLDSTAR

High-end protective suits made of PBI Gold material.

PRODUCT CODE: TI000033



### METALSTAR

DuPont NOMEX MetalPro Plus, the perfect guard against industrial hazards like molten metal splash.








PRODUCT CODE: TI000034



### ARCSTAR

Designed to guard against the intense, destructive heat of electrical arcs.

Ceasefire Fire Suits are effective against all classes of fire and give you the added advantage while fighting any fire.

FEATURES	
	High Heat Resistance. Can with stand a heat level of 1000° C in flash fires without any burning or melting and less than 5% shrinkage
	Limited inflammability
	Tensile strength of 450N
	Seam tensile strength of 450N
	Residual Strength (tensile strength after exposure to flames) of 450N
	25N Tear strength
	The suits are marked with fluorescent 3M reflective tapes at strategic places .



# Ceasefire Fire Safety Suits: POWER



## POWER Jacket



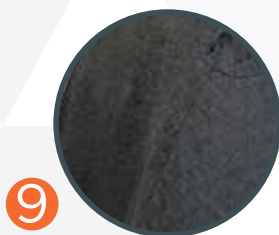
1. There is anti wicking band that prevents ingress (entry) of liquids and knitted wristband that prevents flame and burning parts at sleeve hems.
2. There is front collar fly that can be adjustable to neck of person and that is foldable and protective.
3. There is a hanger tab with snap fastener in pocket to hang gloves (if not in use).
4. Panic zippers are used in order to unzip quickly in case of emergency.
5. There are additional parts at armpits in order to increase mobility.







6. There is radio pocket, which has adjustable height on left chest part.
7. There is an auxiliary part for enabling to conveniently grab zipper slider when gloves are worn.
8. Sleeve hem of suit can be adjustable to fit to wrist of person.
9. Hanger tab in inner coat for hanging the jacket inside out for drying
10. Inside pocket for safekeeping of belongings





## POWER trouser



- | There is an adjustable shoulder strap system that helps fit to any body size.
- | There is a front fly with extra protection part that can be easily opened and closed with Velcro band and zipper.

## POWER Helmet



### COMFORT

- | Lightweight (1,500 gm - including visor and neck protector)
- | Integrated adjustment system and knob (52–64 cm) to ensure a perfect fit on most skull sizes
- | Wide range of accessories and high level of personalization

### HIGH TECH MATERIALS

- | Flame retardant and high temperature resistant composite or thermoplastic
- | Anti-scratch and anti-fog coated integrated visor

### PERFORMANCE

- | Extreme temperature resistance (up to 1,000°C in a 10 second flashover\* flames)
- | Long-term temperature resistance (up to 250°C/ 30 minutes, radiant heat test 14 KW/M<sup>2</sup>)
- | High resistance to mechanical impacts
- | Low-temperature classification -30°C
- | Confirms to EN 443:2008, EN 14458:2004, EN 166
- | MED Approved

### SAFETY

- | Protects the fire fighter from heat flux intensity of up to 14kW/ m<sup>2</sup> at exposure time of 8 minutes
- | Full head protection (including neck and face) Interior shock absorber
- | Effective visibility achieved by reflective tape for optimal use in specific conditions
- | All around neck protector
- | 3 point chinstrap (tested to prevent skin irritation, meta-aramid tape FR)

\*Flashover is the sudden involvement of a room or an area in flames from floor to ceiling caused by thermal radiation.

## POWER Gloves



- | Ergonomic gloves made of Grain Leather
- | Smooth and ductile fire-fighting glove made of grain leather
- | This glove is very suitable for technical assistance and rescue purposes
- | Due to the seamless knitted lining, the glove offers a very good protection against mechanical stress
- | Waterproof and beatable membrane
- | Not washable
- | Conforms to EN 659:2003 + A1:2008

## POWER Boots

- | EN 15090 firefighter standard certified
- | Ergonomic, heat insulated boots
- | Protective against ankle sprain
- | Steel toed for protection against sharp and falling objects



### Characteristics of the POWER Boots

- | Rubber Upper construction with Flame retardant upper with heat insulation capabilities, reinforced upper formulation.
- | Vulcanized Rubber\* Sole. High visibility black and yellow contrast, sole / heel: fuel oil resistance suitable for inimical environment. Slip resistance vulcanized rubber sole, excellent abrasion resistant for extra durability, tested to withstand 18KV live current (dry condition)
- | Heel: energy absorption design to minimize the impact to the heel, centered to enter high temperature, multitasking performance with cold insulation protection
- | Steel Toe Cap which meets EN 20345 which gives protection against stand pin and sharp objects, steel toe cap Meets EN :20345 impact and compression tests.
- | Reliable protection in cold and hot environment
- | Sole and upper are resistant towards mild acids and alkaline
- | Hypalon lacquer coating for weather protection

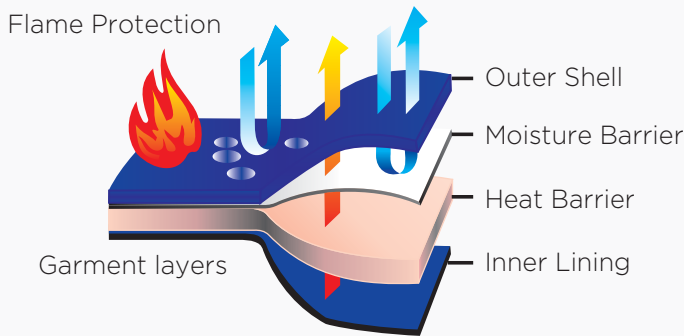
\*Vulcanized rubber is a material that undergoes a chemical process known as vulcanization. This process involves mixing natural rubber with additives such as sulfur and other curatives. Vulcanization makes rubber much stronger, more flexible, and more resistant to heat and other environmental conditions.



**Ceasefire Fire  
Safety Suits:  
GOLDSTAR  
(PBI Gold)**



The Goldstar is a high-end range of protective suits for Fire Fighting and is made of PBI Gold Material. These suits are recommended for large fires that are beyond the EcoStar and ProStar suits' capacities



### Garment layers

Outer shell	PBI Gold
Moisture Barrier	FR nonwoven with PU membrane
Heat Barrier	2 layers of FR nonwoven
Inner lining	Aramid / Viscose FR
Sewing thread	100% Aramid



Xf2  
Xr2  
Y2  
Z2

EN 469:2005 Level 2





## GOLDSTAR Jacket



Radio Pocket



Anti wicking strips at the helm of the jacket



Throat Closure tab located under the collar



3M Scotchlite 9687, 5 cm Width yellow silver yellow reflective tapes with Aramid backing (2 rows at hem and arms and 1 row at chest and back)



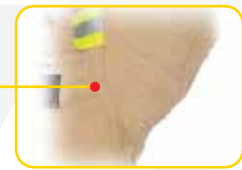
60 cm zipper on the front with quick release system, concealed by a storm flap, closes with FR Velcro fasteners.



Pockets on front right and left with closing by FR Velcro fasteners.



FR Velcro Fastener for Adjustment.



Pieces under sleeves to increase movement capability



Para-Aramid knitted cuffs (can be attached to the thumbs), designed to prevent the liquids and burning particles to go in.

## GOLDSTAR trouser



25 cm Front opening with a FR Velcro and single stud



Leg hems at least 26 cm



Elastic belts on both the right and left sides of the waist



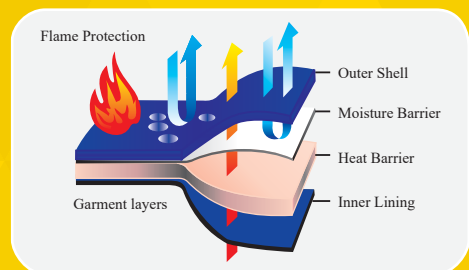
Anti wicking strips at the leg hems of the trousers



Elastic and adjustable braces



Two rows of 3M Scotchlite 9687, 5 cm width yellow silver yellow reflective tapes with aramid backing





## GOLDSTAR Gloves

Solid construction for complete protection, grip and control.



### Characteristics

- | Double face knitted, silicon bonded Kevlar palm hand that guarantees a perfect grip and is highly flexible offering impressive dexterity.
- | For additional protection the gloves also comprise a knuckle protector and a breathable, waterproof and blood borne pathogen proof insert
- | Washable at 30°C

## GOLDSTAR Boots

Rugged build for protection and grip. Lightweight for complete manoeuvrability.

### Upper construction

- | Flame retardant upper with heat insulation Level 3 capabilities
- | Reinforced upper formulation with minimum thickness of 2 mm
- | High visibility with black and yellow contrast



### BOTTOM construction

- | Fuel oil resistant sole suitable for inimical environment.
- | Slip resistant vulcanized rubber sole conforms to EN 13287.
- | Excellent abrasion resistant for extra durability.
- | Tested to withstand 18kV of life current(dry condition).
- | Heel energy absorption design to minimize the impact to your heel.
- | Centered to enter high temperature with HRO performance.
- | Multitasking performance with cold insulation protection.

### Steel Midsole

- | One piece stainless steel which exceeds EN ISO 20345 sole penetration and flexing test requirements
- | Withstands pins & sharp objects

**Steel Toe Cap:** Meets EN ISO 20345 impact and compression tests. Reliable protection in cold & hot environments

**Chemical Resistant:** Sole & Upper - Resistant towards mild acids and alkalis

**Finishing:** Hypalon lacquer coating for weather protection.

Type of Construction: Vulcanized Rubber Upper and Sole

- | European Standard CE Approved
- | EN 15090: 2006 (F2 IS H13 P T CI)
- | EN 20345: 2004 (SB P E CI SRA)
- | CSA Z195-02 / ASTM F 2413 - 05
- | Lining Material: Extra comfort woven cotton canvas

## GOLDSTAR Helmet

The Goldstar Helmet is designed to protect the head from injury during drills, rescue-fire fighting missions, or any other actions performed by fire-fighters.

Chin belts with a clip, made of Nomex fabric, 22 mm wide with black leather cover.

Switching plate, made of polyamide with glass fibre leather cover.

Retention belt equipped with a regulating system (54-62), made of polyamide and leather.

The helmet conforms to all provisions of PN-EN 443:2008 norm, which requires more rigorous tests than the previous norm.



Gold plated visor with inner ocular shield, and inner face protector made of polycarbonate covered with hardening coat provide resistance to flame, chemicals and infra-red radiation.

The shell of the helmet is made of polyester Kevlar-glass laminate. It is smooth, without sharp folds, one size and different colours.

Provision for torch with switch, and breathing apparatus with holder. Fully compatible with modern wireless communication sets.

Shock-absorbing insert made of polyurethane foam, strengthened with an inner bowl, which provides maximum technical resistance, stroke-absorption and ergonomic comfort.

## Testing parameters

Combustibility test at flames of temperature 950°C ( $\pm 500$ ) after being heated at a temperature of 900°C for 15 minutes

Test on resistance to molten iron spill

Test on resistance of the sight to chemicals, including hydrochloric acid, sodium hydroxide, Pxylene, n-heptane and butane

Test on resistance to heat flux intensity of 14kW/m<sup>2</sup> at an exposure time of 480s

Test on resistance to penetration of elevated parameters; energy 24, 50 J, in temperature of -30°C and 50°C

Test on stroke-absorption directly after being irradiated by heat flux intensity at 30°C; 50°C; 100°C in water and after thermal radiation

Test on resistance to hot solids (steel ball of temperature of 900°C)

Test on retention system effectiveness

## CERTIFICATES

| WE type of evaluation certificate no. WE/S/1454/2009 issued by CIOP-PIB in Warsaw

| Certificate of Accordance no. 0726/2010 issued by CNBOP in Jozefow

# Ceasefire Fire Safety Suits: ALUSTAR

## Fire Entry Suits

Fire entry suits are designed for the purpose of safely extinguishing fires that occur during hazardous situations. They comprise numerous layers and some of them can weigh up to 22 kgs. Ceasefire Fire Suits, on the other hand, weigh a mere 6 kgs which allows for greater mobility, while maintaining the highest levels of protection.

With a capacity to handle fires of up to 1093°C temperature they are primarily meant for entry inside the fire affected area and for firefighting operations. A fire entry suit consists of a coat with long sleeves, a double storm fly front, a pouch to carry the cylinder for the breathing apparatus, pants, a hood, boots and gloves, all constructed with multiple layers. The garments that make up the fire entry suit are all stitched using superior quality DuPont 4-ply Kevlar thread.

The safety fire suits are usually provided with adjustable straps while the pant and hood can be kept in the built-in shell. In order to provide thermal protection to the eyes, the fibre glass helmet has tempered glass and two gold plated lenses. The boots that accompany the suit are fitted with oil and heat resistant soles thus providing a firefighter with complete security from any kind of fire-related danger.





### ALUSTAR

The Ceasefire Alustar suits are meant for proximity firefighting, bulk flammable liquids firefighting, flammable gas firefighting and similar situations that release high levels of radiant heat.

The suits are an integration of the latest material technology, design and construction workmanship and are certified to EN 1486.

The Ceasefire ALUSTAR is an Aluminized para-aramide proximity suit with multi-layer system.

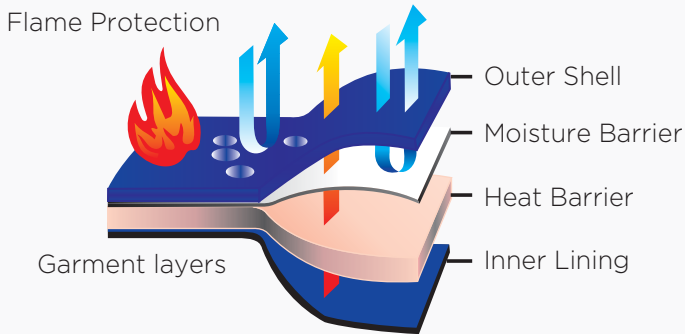
- The suit's outer material has a special aluminization technology called Dual Mirror which enables a much better radiant heat reflection compared to conventional aluminized fabrics. The base fabric is a knitted virgin para-aramide that is extremely light in weight. This makes the suit very comfortable and flexible while in use. The suit is also very strong owing to its rip stop weave.
- The second layer is a moisture barrier which prevents water penetration.
- The 3rd layer, i.e. the thermal barrier, consists of an Aramid / Viscose FR inner lining quilted to two layers of inherently flame retardant felt. This 2-layer felt enables more air to be trapped between the layers causing much better insulation against heat.

Suits currently available in the market can weigh up to 22 kgs. The Ceasefire Alustar weighs in at a mere 6 kg, eliminating the discomfort of managing a bulky fire suit and allowing one to focus on fighting the fire.

### Suit Weight

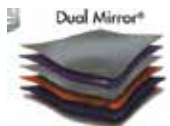
- ONLY 6 Kg (Without SCBA, boot and carrying case)
- ONLY 9 Kg (Without SCBA and carrying case)





### Garment layers

- | Outer shell      Dual mirror Aluminized knitted KEVLAR fabric.
- | Moisture Barrier      FR nonwoven with PU membrane
- | Heat Barrier      2 layers of FR felt
- | Inner lining      Aramid / Viscose FR
- | Sewing thread      100% Kevlar dual mirror





# Ceasefire Fire Safety Suits: Industrial Suits

Ceasefire also presents to you, its range of personal protective clothing for a range of industrial applications. These garments are available in different designs like jackets and trousers and aim to protect workers in hazardous occupations like those in Iron and Steel companies, Electrical Utilities and Power plants.

The garments are designed to defend workers from sudden flash fire, the impact of electric arcs, molten metal splashes and other potentially dangerous situations. The garments are inherently flame resistant and do not melt, drip or ignite under high temperatures.

Ceasefire is introducing two kinds of Industrial Fire Suits for industrial worker protection:



**Metal Star**



**Arc Star**

These suits are essentially meant to be used at foundries, power plants, cement refineries and steel manufacturing plants



## Metal Star



Everyday, welders and iron workers are exposed to the risk of burns from molten iron sparks and splashes, open flames and intense heat. Molten Aluminum has a temperature of 660°C which causes skin peeling and 3rd degree burns upon contact. Molten Steel has a temperature of 1400°C which causes higher degree burns and skin damage on contact.

Additionally, physical exertion in hazardous environments also leads to accidents that are caused by heat stress or heat stroke.

With that in mind, Ceasefire presents 'MetalStar'-protective clothing that can be used to prevent various industrial hazards like molten iron splash burns and welding spark burns

For MetalStar, we use a new treated fabric system developed by DuPont called NOMEX MetalPro Plus. This special surface treatment significantly improves the shedding effect, and therefore the overall protection level.

The Ceasefire MetalStar fire suit conforms to ISO 11612:2008 standards and is tested as per the strict test norms laid down in this standard.

### The rigorous tests that the suit is put through are:

- | Test against flame exposure: Time taken for 2nd degree burns through flames exposure. In the case of Ceasefire MetalStar it is 3 to 6 minutes, thus conforming to B1 standards under ISO 11612:2008.
- | Test against radiant heat: Time taken for 2nd degree burns when exposed to a radiant heat of 20kw/m<sup>2</sup>. In the case of Ceasefire MetalStar, it is more than 8 minutes, thus meeting the C1 standard under ISO 11612:2008.
- | Test against Molten Aluminium: Quantity of molten aluminium poured & withstood by the fabric without causing any burn injury. In the case of Ceasefire Metalstar it is 201gm. to 350 gm thus confirming to D2 standard under ISO 11612: 2008.
- | Test against Molten Steel: Quantity of molten steel poured & withstood by the fabric without causing any burn injury. In the case of Ceasefire Metalstar it is 201gm thus confirming to E3 standard under ISO 11612: 2008.



## ARC Star

Electric arcs are caused due to breakdowns of a gas, which produces a continuous discharge of plasma. This happens because current is flowing through a medium such as air, which is normally non-conductive.

The arc is formed in the space between two conductive electrodes which are often made from carbon, and once initiated, will draw current from a fixed-voltage supply until the apparatus is destroyed. Electrical arcs are at temperatures high enough to obliterate most materials.

To summarise what makes electrical arcs so dangerous:

- ▮ Capable of reaching temperatures up to 22000°C
- ▮ Can produce shockwaves that travel at 1200 km/hr.
- ▮ Cause deafening explosions at noise levels as high as 165 decibels - even louder than a jet engine less than 100 metres away.
- ▮ Radiate heat waves at 3,00,000 km/sec
- ▮ Emit Ultraviolet and Infrared rays

For protection from these arcs which can be immensely destructive, it is of utmost importance that industrial workers wear protective clothing.



### Salient Features

- ▮ Provides permanent flame resistance
- ▮ Does not melt, ignite or continue to burn
- ▮ Use comfortable fabrics for protection
- ▮ Resists breaking open during exposure
- ▮ Insulates the wearer from heat & decreases/avoids heat burns
- ▮ Provide them protection to safely escape
- ▮ Increases the chances of survival

### Applications

- ▮ Automotive Industry
- ▮ Electrical Utilities
- ▮ Engineering
- ▮ Railways
- ▮ Power Distribution
- ▮ Ship Building



## Who is at risk?

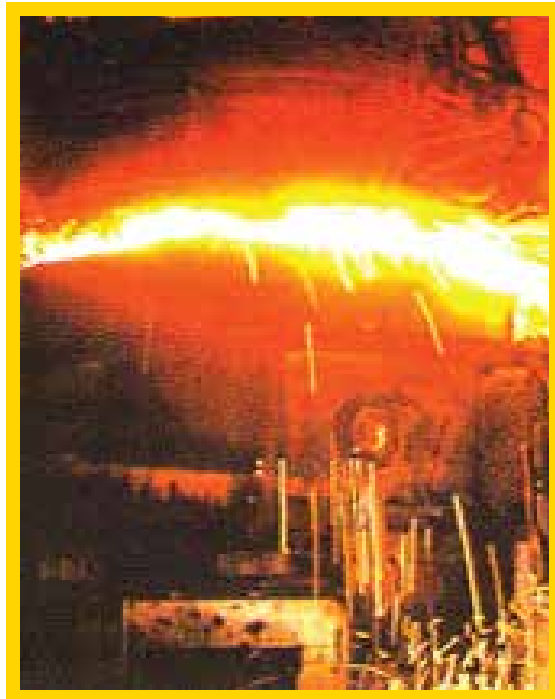
The ranges of people that may be affected by Electric Arcs are broad and far reaching. Because there are so many different situations in which an arc flash can occur, it is unpredictable, accidental and people have to always be ready for it. However, all electricians & workers in a range of industries such as utilities, telecommunications, petrochemical and gas, mining foundries, engineering industries and chemical plants may be at the most risk from Electric Arcs. For these individuals in particular, protective clothing is a must at all times during work hours.



## Threat

When an electric current passes through air between ungrounded conductors and grounded conductors, the temperatures can reach 35000°F. Exposure to these extreme temperatures, both, burns the skin directly and causes ignition of clothing thus adding to the burn injury. The majority of hospital admissions due to electrical accidents are from the arc-flash burns, not from shock. Each year more than 2,000 people are admitted to burn centers with severe arc-flash burns. Arc-flashes are capable of killing at distances of even 10 ft.

In the electrical industry the threat of an electric arc flash exposure has necessitated the use of flame resistant clothing. The flame resistant clothing intends to minimize burn injury and provide the worker with some protection after being exposed to an electric arc.



Non-flame resistant clothing ignites and dramatically increases the burn injury percentage and severity well beyond that of the initial arc flash exposure.



Download the Ceasefire app.



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