



MAXIMUM PROTECTION

Professional Technical Suit Product Guide

COMPANY BACKGROUND



ABOUT INVERSYS CORPORATION

Inversys Corporation Sdn Bhd (ICSB) was founded in 2002 as a trading company that specializes in premium quality of safety, rescue and surveillance equipments for Fire Rescue, Military and Law Enforcement agencies. It was formed by hands-on entrepreneurs to provide fast, reliable and continual services to these agencies.

ICSB is currently moving towards becoming the "one stop centre" in providing specialized services, from the development phase, analyzing clients requirements and issues, and providing the best and most fitting solutions.

Backed with 15 years of experience behind us in trading Personal Protective Equipments and other ranges of safety and rescue equipments, we have taken the definitive step forward to pioneer in manufacturing our very own protective clothings under the brand "KALISE".

With the supports from our leading protective clothing brand partners, we offer a locally made, a wide range of protective clothings and technical garments that meet the highest safety standards and specifications. Our products are customized to fulfil our customers' needs, depending on the products functions and purposes, with each product carries the respective local and international approval certifications.

"KALISE" product range includes fire fighter suits, waterproof clothing, bulletproof vest, military clothing, various types of FR clothing, industrial wear and many more.

SERVICE SOLUTIONS



FULLY MANAGED SERVICE SOLUTION

Inversys Corporation service solution provides a turnkey solution that takes safety to a new level that covers all aspects from product development, manufacturing and even after sales services in order to guarantee our clients to be worry-free of KALISE products.

The sales service caters throughout from cleaning and care, maintenance and repair ensuring end user are equipped with garments that are fit-for-purpose at all times. On top of that, we also provide a local stock holding facility and logistic so that each of our products can be supplied accordingly to end user.

SERVICE PROTOCOL



STRATEGIC PARTNERSHIP



STRATEGIC PARTNERSHIP

Backed by 15 years of experience in trading various types of head-to-toe Personal Protective Equipments (PPE), Inversys Corporation Sdn Bhd has advanced forward into manufacturing our very own brand of protective clothing "KALISE". With the support and help from our established partners and suppliers, our 10,000 square ft factory is certified to manufacture any range of protective clothing that meets the international standard requirements. Beside manufacturing "KALISE" product range, we are also the exclusive dealer for various types of PPE, equipments and items. Listed are our well known partners and suppliers with remarkable innovative products that is worth paying for.

OUR PANEL SUPPLIERS



MANUFACTURING & PRODUCTIONS

Inversys Corporation Sdn Bhd owns a double storey 10,000 square feet factory located in Bersatu Industrial Park, Cheras Jaya, Malaysia.

Our factory is equipped with heavy duty and high technology machineries. Our sewing machines are automatic machines that promote dry oil pan system which eliminates the possibility of oil stain on the products. Our seam sealing machines are crucial in sealing seams with PU/PTFE tapes which prevent water penetration into our waterproof products.

Our factory is also equipped with other types of machines with various types of functions to enable us the capability and capacity in producing a wide range of protective clothing and safety work wears customized to our clients' needs without any hesitation.

Our factory is divided into 6 sections: Cutting Section, Sewing Lines, Hot Section, Quality Control Section, Packaging and Storage Section. These 6 sections are the main basic system to produce a garment. With this system in place, you can be assured that our productions are carried out in an orderly manner, punctual to datelines, and meet the high standard requirements of quality products.

With proper factory set-up, production systems and safety requirements, our factory are authorized to produce protective clothing, safety work wear and clothing for Malaysian authorities. We are also a registered license converter of a well-known and the best protective fabric manufacturers in the market such as Tencate.etc.

Aside from the complete machineries and systematic manufacturing process, our operator are fully dedicated, highly skilled and well experienced. We have with us the true components that enable us to produce only the highest quality products from our factory.







MAXIMUM PROTECTION

KALISE only uses technologically advanced materials with maximum protection properties especially on fire and water resistance. Our objective is to provide the very best protection by providing the best solution varies to KALISE functions and purposes, depending on client's requirements and concerns.

MAXIMUM STRENGTH

Maximum protection comes with maximum strength. Each type of KALISE products only uses high strength and high durability materials to maximize the use of the garment without any restriction and hesitation.



MAXIMUM COMFORT

Maximum protection and Strength are not only the main properties that KALISE product will provide to the wearer. Comfort is also our main key point in order to enhance the wearer's productivity. The enhanced comfort of our products also enable the wearers to perform their tasks without any hesitation.

MATERIALS & RESOURCES

The types of material play a crucial role in making protective clothings. Therefore, we work closely with some of the world's most innovative organizations that develop and produce the most comprehensive range of proven, high-performance fabrics.

In order to produce the best protective clothings, we only prioritize materials with maximum protection, strength and comfort. To provide optimum solution to our clients, a wide range type of materials can be selected. Each type of materials are made with different properties and functions to cater for different scenarios and requirements needed. We assure you that our work wear is manufactured with the best fabrics and technology available that will increase the productivity of the wearer.



B O D Y A R M O R

KALISE Body Armor is manufactured locally by Inversys Corporation Sdn. Bhd. under joint production with MARS Armor (Bulgaria). It is designed to meet the specific needs of high quality body armor for law enforcement, military, and civilians worldwide. Manufactured with high quality anti-ballistic materials specifically for bullet proof vests construction. KALISE Body Armor obtain minimum weight at high protection under any conditions and can be worn comfortably over clothing without any restriction of movement.

KALISE Body Armor inserts– Hard Armor Panel (HAP) and Soft Armor Panel (SAP) are made from the world's strongest fibre, Dyneema® or Kevlar®. Ballistic resistance and stab protective inserts surpass all threat levels that meets the latest US, German and British body armour standards and are regularly tested in accredited international ballistic laboratories.



MAIN FABRIC



COTTON RIP-STOP

- Extreme durability
- Highly comfortable

OUTER FABRIC



PU COATED
CORDURA NYLON

- Extreme durability
- Extreme water protection
- Highly comfortable

MAIN FABRIC



DEFENDER™ M

- Superior thermal protection
- Extreme durability
- Flashover protection
- Chemical protection

MAXIMUM PROTECTION

KALISE Body Armor inserts– Hard Armor Panel (HAP) and Soft Armor Panel (SAP) are made from the world's strongest fibre, Dyneema® or Kevlar®. Ballistic resistance and stab protective inserts defeat all threat levels meeting the latest US, German and British body armour standards and are regularly tested in accredited international ballistic laboratories.

BESPOKE AND PERSONALISE

KALISE Body Armor offers Production of full range configuration of ballistic vests including covert, overt, ladies, VIP, floatation, tactical, military and special models. Vest carrier construction, printed design pattern, and each of its layer materials can be customised varies to KALISE Body Armor function and purpose depending on, requirements and issue by our ballistic vest specialist.





PRODUCT SPECIFICATIONS

KALISE BODY ARMOR

Standard features:

- Waterproof and high abrasion resistance Body Vest Carrier made of Nylon Cordura.
- 360° of Modular Lightweight Light Carrying Equipment (MOLLE) attachment system webbing.
- Quick-release capability with security strap quick release system.
- Flexible multi threat SAP Increased coverage area, front and back part of body major organs area.
- Trauma pad attached inside for further reduction of blunt force trauma.
- Improved closure strap system.
- Multi-point adjustability.
- Reinforced drag handle.
- Internal compartment for KALISE Body Armor inserts (HAP & SAP).
- Custom printed pattern depends on requirement (Digital or conventional camouflage).
- Standard size Vest Carrier according to Dimension Measurement requirement.

KALISE Body Armor can be designed and fabricated by ballistic vest specialist depending on scenarios, situations and requirements.

Ballistic Protection

KALISE Body Armor can be produced according to all international standards such as



The level of protection of the bullet proof vest from above mentioned standards are chosen by the customer.



FIRE FIGHTING SUIT

KALISE FIRE is designed to meet all the specific needs of fire and rescue services. The suit is constructed with three layers of advanced and high protection materials that offers exceptional protection against water, radiant heat and flame, with a high level of thermal resistance. Aside from layers of advanced protective materials, the sleek design ensures that KALISE FIRE suit obtains the minimum weight at high protection and can be worn comfortably without any restriction of movement.



OUTER FABRIC

PROTECTION SHELL

- Good thermal performance
- High tear and tensile strength
- Anti-static for explosion risk

INNER FABRIC

MOISTURE MEMBRANE

- Liquid chemicals and water protection
- Excellent thermal performance
- Anti-blood borne pathogens

INNER FABRIC

THERMAL BARRIER LINING

- Premium thermal performance
- Moisture management
- Highly durable
- Outstanding comfort

BESPOKE AND PERSONALISE

KALISE FIRE consists of 3 layers of protection. The outer layer is considered as the main shell that crucially protects fire and rescue personnel from direct contact of fire. The 2nd layer also known as moisture membrane that will keep the personnel dry inside the suit. And the 3rd layer is the inner lining functioning as the thermal barrier that reduce and delay inside temperature rise from fire radiant heat in order to provide maximum protection to the personnel when carrying out their duties. KALISE FIRE suit design, construction and each of this layer can be customised to meet any functions and purposes depending on fire rescue scenarios, requirements and issues by our fire fighting suit specialist.



PRODUCT SPECIFICATIONS

KALISE FIRE FIGHTING SUIT

Multilayer protection and function

LIQUID RESISTANCE

Resistance and protection of fabric from water or liquid chemicals.

OUTER SHELL FABRIC

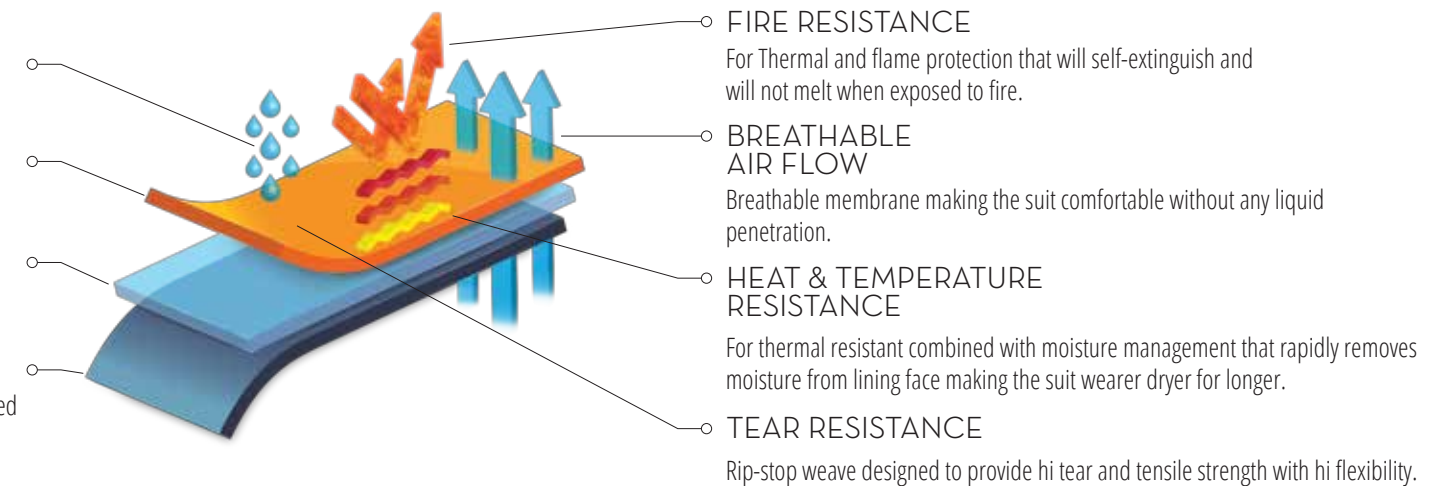
Material: Nomex® Advance rip-stop
Tencate Advance

MOISTURE BARRIER

Material: PROLINE 89/52 PU laminated

THERMAL BARRIER

Material: DUFLLOT QGA555 FR lining quilted



Standard features:

Each layer can be change varies to KALISE FIRE function and purpose depending on requirements and issue.

- Functional design with front pockets secured with Velcro flaps and two pockets concealed beneath zip guard
- KEVLAR® elbow and knee pads for greater comfort and protection.
- Tailored to fit collar and throat tab for comfortable protection.
- Epaulettes at shoulders.
- Thumb loops and adjustable wrist closure tabs to give an effective seal with glove.
- Radio loop and adjustable torch loop on chest.
- Colours available - Navy and Orange.
- Total weight : less than 3.5kg

KALISE FIRE can be designed and constructed depending on fire rescue scenario, requirement and issues by firefighting suit specialist.

Standard Compliant



KALISE FIRE standards are regularly tested by BRITISH TEXTILE TECHNOLOGY (BTTG UK) with CE approval
BS EN469:2005 / AC:2006 and BS EN340:2003. Test certificate no: 5422529/1





FIRE RESISTANT COVERALL

KALISE COVERALL is made of comfortable and durable inherently flame-resistant fabrics by the world's most innovative organisations that develops and produces the most comprehensive range of proven, high-performance fabrics, TENCATE®. TENCATE, Tecasafe Plus provides superior arc flash and flash fire protection to the wearer along with inherently FR fibers, inherently wicking properties and excellent breathability. Coolderm Technology allows fabrics to be softer and cooler without any harsh chemical treatments or finishes; providing enhanced comfort. With the best inherently fire resistant materials by TENCATE, KALISE FIRE COVERALL are designed to protect workers or employees in most fire hazardous industries. KALISE FIRE COVERALL is designed to be worn comfortably without any restriction of movement plus providing full protection to the body and assured that there are no gaps for sparks and molten splash to get through.





BESPOKE AND PERSONALISE

KALISE Industrial Work wear can be customize to any type of work wear and protective clothing from work jacket, pants, lab coat, etc. depending on clients' needs and requirements. Our service includes assisting our clients from material selection, designed for safety, functionality, comfort and style for client corporate identity without neglecting the safety requirements. We are capable to provide any type of materials selection from cotton, cotton treated to any type of FR materials.





PRODUCT SPECIFICATIONS

KALISE FIRE RESISTANT COVERALL

Standard features:

- **Active Moisture Wicking** : When sweat or another moisture occurs, the fabric pulls it away from the body and spreads it throughout the fabric to a wider area in order to dry faster.
- **Evaporative Cooling Effect** : As moisture evaporates in hotter climates, the body is cooled. In cold weather, the fabric dries quicker than cotton to regulate body temperature.
- **Soft with No "Break-In" Period** : No extra laundering required could weaken the FR protection of chemically treated fabrics. Coolderm™ Technology fabrics are soft and ready to wear.
- **Buttons** : Brass snap on and the inner face of the brass snappers shielded with a laminated patch of fabric to prevent burn injuries.
- **Zippers** : Heavy duty two (2) way quick release brass zipper with flame resistant flap outside and inside.
- **Reflective Tapes** :
 - Pass the flame resistance test according to BS EN 533/BS EN71:2003/NFPA 1971-2000
 - Pass the retro-reflective material certification according to BS EN471:1994 or ANSI/SEA-107-2004

Tecasafe Plus is certified to meet the standard of:



NFPA 2112



NFPA 70E HRC 2 Compliant



EN ISO 11611



EN ISO 11612



EN ISO 1149



W A T E R P R O O F S U I T

KALISE WATERPROOF is designed to meet all the specific needs of a waterproof suit. This suit is highly recommended for its material, design and function properties. This suit is made of highly durable oxford polyester with 100% PU coated for its waterproofness. Besides that KALISE WATERPROOF is fully seam sealed on every part of the suit seam to prevent water penetration through the stitched thread. Therefore you can be assured that KALISE WATERPROOF will keep the wearer dry without hesitation and restriction of movement under any rain condition.



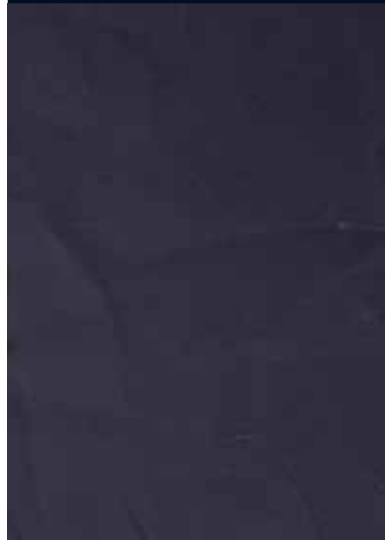
OUTER FABRIC



PU COATED
POLY OXFORD

- Extreme water protection
- Extremely durable
- Highly comfortable

MAIN FABRIC



NOMEX® IIIA
PTFE LAMINATED

- Inherently flame resistant
- Extreme water protection
- PTFE laminated
- Extremely durable

INNER FABRIC



TAFETTA LINING

- Highly comfortable
- High durability

BESPOKE AND PERSONALISE

KALISE WATERPROOF can be customize from design construction, inner lining properties to any type of waterproof material with PU or PTFE coating and seam sealing tape varies to function and clients requirement. Now with new development in fabric technology that can provide dual protection in one material, maximizing the function and usage of the waterproof suit, not only for its waterproofness but also fire protection. Besides material selection, the pattern design can also be custom printed depending on requirement (Digital or conventional camouflage).





PRODUCT SPECIFICATIONS

KALISE WATERPROOF SUIT

Standard features:

- 3 piece segments designed rolled hood into the collar when deploy is fastened with heavy duty zipper.
- The front closure is by using open end heavy duty zipper, hook and loop fastener and enclosed with a double storm flap.
- The trousers bottom leg shall have nylon zippers for loosening/tightening.
- The trousers pocket shall have nylon zippers for prevention of water penetration into the pockets.
- Elasticated waist with adjustable cord string.
- Custom printed pattern depends on requirement (Digital or conventional camouflage).

PRODUCT RANGE

SPECIFICATION DETAILS



FIRE FIGHTING SUIT

DESIGN
C1150 (TUNIC)
C1151 (OVERTROUSERS)
DP588P (COVERALL)

OUTER SHELL
Nomex® Advance Ripstop/Tencate Advance

MOISTURE BARRIER
Proline 89/52 PU membrane

THERMAL BARRIER
DUFLOT/ Viscose FR lining quilted
anti wicking FR Polycotton

REFLECTIVE TAPE
3M yellow/silver/yellow FR reflective tape

APPROVALS
EN 469:2005 ,EN 340:2003

SIZES
S, M, L, XL, XXL

COLOR
Navy/Orange



BODY ARMOR

TYPE
Model 83 quick release vest alpha

VEST CARRIER MATERIAL
Cordura Nylon (6.6) with PU coating

ARMOR PANEL MATERIAL
UHMWPE Dyneema®

SOFT ARMOR PANEL LEVEL OF PROTECTION
Ballistic Resistance Level IIIA
Stab Resistance Level II

HARD ARMOR PANEL LEVEL OF PROTECTION
Ballistic Resistance Level III



COVERALL

FABRIC
Tecasafe® Plus 700-A /238gsm

FIBER BLEND
45% fr-modacrylic 35% lyocell 20% aramid

INHERENTLY FIRE RETARDANT
Resistant FR properties will never wash out

WEAVE
Twill

PERFORMANCE STANDARD
NFPA 2112, EN ISO 11612

MATERIAL TECHNOLOGIES
Fire Resistant
Anti-Static
Coolderm™ Technology



WATERPROOF

DESIGN
BOMBA waterproof suit

MATERIAL
420D oxford polyester with 100% waterproof PU coated.
Lining : 70D Nylon Tafetta

CONSTRUCTION
Fully seam sealed with PU seam seal tape

PERFORMANCE
Hydrostatic head test greater than 1500mm H2O

REGISTRATIONS



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT

NO SIJIL : K20858259871330364
NO RUJUKAN PENDAFTARAN : 357-01016967
TEMPOH SAH LAKU : 05/08/2014 - 04/08/2017

Bahawa dengan ini diperakui syarikat :

INVERSYS CORPORATION SDN. BHD. (567709-A)
NO. 2-3-1,
JALAN 5/101 C,
CHERAS BUSSINESS CENTRE,
W.P. KUALA LUMPUR
56100 KUALA LUMPUR
WILAYAH PERSEKUTUAN (K.L), MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang bekalan/perkhidmatan di bawah sektor, bidang dan sub-bidang seperti di Lampiran A. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B. Individu yang diberi kuasa oleh syarikat bagi urusan perolehan Kerajaan adalah seperti berikut :

_____	DIRECTOR
_____	DIRECTOR
_____	MANAGER
_____	EXECUTIVE

t.t
DATO' HASHMUDDIN BIN MOHAMMAD
Bahagian Perolehan Kerajaan
h.p Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 05/08/2014

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

NO SIJIL : BP20858259871770487
NO RUJUKAN PENDAFTARAN : 357-01016967
TEMPOH SAH LAKU : 05/08/2017 - 04/08/2020

Bahawa dengan ini diperakui syarikat :

INVERSYS CORPORATION SDN. BHD. (567709-A)
NO. 2-3-1,
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CHERAS BUSSINESS CENTRE,
W.P. KUALA LUMPUR
56100 KUALA LUMPUR
WILAYAH PERSEKUTUAN (K.L), MALAYSIA

Telah diiktiraf sebagai Syarikat Bumiputera oleh Kementerian Kewangan Malaysia. Taraf Bumiputera bukannya hak dan boleh ditarik balik sekiranya syarikat gagal mematuhi syarat/kriteria yang ditetapkan. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Sijil Akuan Pendaftaran Syarikat Bumiputera (Lampiran C).

t.t
DATO' OTHMAN BIN SEMAIL
Bahagian Perolehan Kerajaan
h.p Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 05/08/2017

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

CERTIFICATIONS & AWARDS



PLEASE CONTACT US FOR MORE INFORMATION AND CLARIFICATION

This catalogue only provides general specification guidelines for KALISE main products. Detailed specification and construction of KALISE products can be tailored in accordance of the user. Our specialist will also be able to advice and recommend to any specific requirement.

www.inversys.com

Inversys Corporation Sdn. Bhd.

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