



ROUGH WATERS HARD GEAR



URSUIT

IMMERSION SUITS FOR PROFESSIONAL AND LEISURE USE.

WHEN LEAVING FOR EXTREME CONDITIONS, THE MINIMUM TARGET IS TO RETURN.

The Ursuit® immersion suits are designed for extreme conditions. When we design our suits, the most important aim is the user's safety and survival in all situations. Other important goals are the comfort and usage of the suits, achieved with design details and choice of materials. The continuous product development made in close co-operation with demanding professional users gives our suits that extra, which makes them the first choice in their field, both for work and heavy leisure use.

Professionals know: in cold water and rough sea you are just as good as your equipment. When you choose an Ursuit® you are prepared for everything.

THE THERMAL INSULATION OF IMMERSION SUITS:

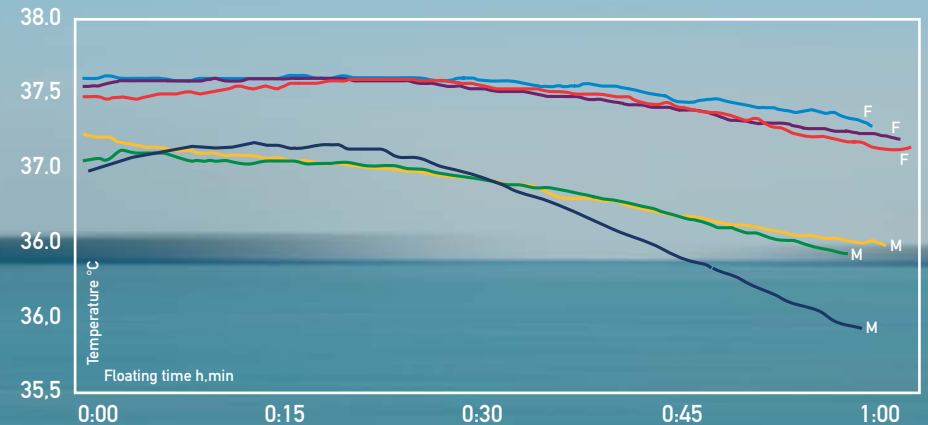
IMMERSION SUIT EN ISO 15027-1

The warmth of clothing protecting against cold water depends on the thermal properties of the under and intermediate clothing worn under the dry suit.

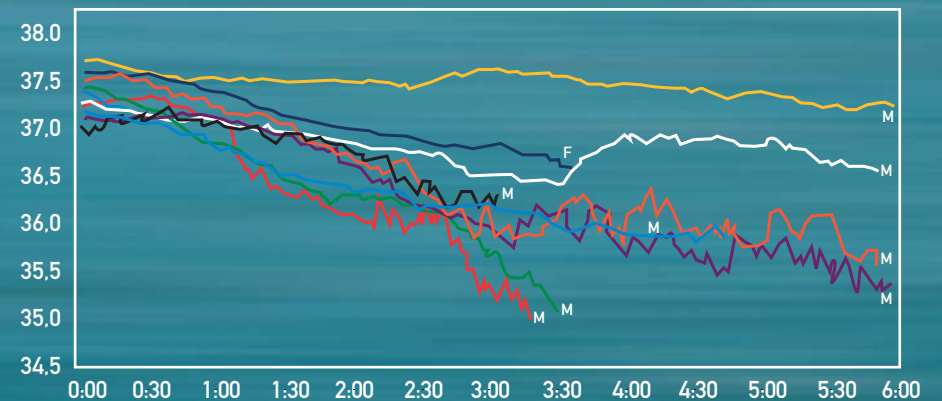
Water temperature	< 5 °C	6,0 h	2,5 h	1,5 h	1,0 h
	5 °C - 10 °C	9,0 h	4,5 h	2,5 h	1,5 h
	10 °C - 15 °C	15,0 h	7,5 h	4,0 h	2,0 h
	> 15 °C	24,0 h	15,0 h	6,0 h	3,0 h
Protection class	A	B	C	D	

The protection class of an immersion suit is determined by its protection properties against cold. The figures in the table show the water temperature and the time of floating in cold water. During the tests, the body temperature of the test subjects must not in any single case fall below the limit of hypothermia, which is 35 °C. The diagrams show that cold water resistance varies highly between the test subjects. The Ursuit® immersion suits have been classified in their protection classes according to the lowest test results, to assure sufficient thermal insulation, independently from the variations between different users.

The Finnish Institute of Occupational Health, Department of Physics (FINAS test laboratory T013) has tested the thermal insulation of the Ursuit® and Liukko immersion suits, in accordance with the EN ISO 15027-3 and the LSA Code, with the following results:



The temperatures of six test subjects (M = male, F = female) during the testing of the thermal properties of Ursuit® immersion suits, with standard clothing. During the test the water temperature was 5 °C. The average fall in temperature of the test subjects after 1 h was 0,55 °C, with a thermal insulation of 0,83 clo.



The temperatures of nine test subjects (M = male, F = female) during the testing of the thermal properties of Ursuit® immersion suits, together with the Finnfill thermal underwear. During the test the water temperature was 2 °C. The average fall in temperature of the test subjects after 6 h was 1,1 °C, with a thermal insulation of 1,5 clo.



Immersion suit



Thermal underwear



Buoyancy vest



WITH ADDITIONAL EQUIPMENT YOU CAN IMPROVE THE PROTECTION CLASS.

The Ursuit® immersion suits are aimed for continuous work and demanding leisure usage, especially for conditions where you may get wet or fall into cold water. In such conditions the suits are fit for long term usage, as they are manufactured of a breathable three layer material. Each suit is pressure tested before delivery.

The Ursuit® immersion suits have the following approvals:

- Directive on personal protective equipment 89/68/EEC EN ISO, standard 15027-1



- IMO LSA-Code, directive on marine equipment 96/98/EC



With the addition of optional equipment you can, at a small cost, improve the protection class of your suit.

With an optional thermal underwear you are able to improve the protection level to class B, in accordance with the standard SFS-EN ISO 15027 1-3.

With an optional 70 N buoyancy vest you are able to change your suit in accordance with the directive on marine equipment 96/98/EC (MED) to an AES suit (Anti Exposure Suit).

Without changes in the protection class you can also choose the optimal hood, the seal and a footwear alternative (see page 19).

URSUIT® GEMINO ACTIVE / URSUIT® GEMINO OPERATIVE

The suit models Gemino Active and Gemino Operative, based on the Ursuit® Anywear technology, represent one of the greatest innovations in dry suit history. As a forerunner in dry suit technology, and as a result of years of product development, Ursuk has succeeded, for the first time ever, to join a separate jacket and trouser part to a functional dry suit combination.

This is possible thanks to the patented suit construction, which joins the separate jacket and trousers by a dry zipper and the ZipLock mechanism. It is possible to use the jacket as well as the trousers separately, as casual foul weather gear. Joined together the parts form an immersion suit that conforms to the user's wildest requirements.

URSUIT® GEMINO

- Material: Gore-Tex® fabric based upon the ePTFE membrane, which lets vapour penetrate but which is completely waterproof.
- Seams: patented low seam construction based upon FlatSeam technology, with all seam materials at the same level.
- Neck and wrist seals: super stretch neoprene, assuring the water tightness.
- Knee and back reinforcement.
- Attached Gore-Tex® socks allow you to choose foot wear according to the application.
- The trouser upper part is equipped with a phone pocket.
- The trousers are equipped with suspenders.
- Tightening waist strap.
- The suit is supplied with separate neoprene hood and gloves.
- Carrying / storage bag.

GEMINO ACTIVE

Fishing, boating or sailing, canoeing or river-rafting, wind or kite surfing – whatever your passion, Ursuit® Gemino Active will keep you dry and in the game. In all weather and water conditions. The Gemino Active line of suits is built for active life on the water, and it is built to take the stresses that your chosen sport will put it through.



Sleeve pocket



Suspenders



Attached socks

Approvals:



0403

Material:



Seam construction:



GEMINO OPERATIVE

When your life is on the line, any and everyday, there is no room for second guessing. You have to know that you can rely on your gear. Your life, or that of a fellow man, may depend on what you wear – or don't wear. The Ursuit® Gemino Operative line of suits is built for the professionals. No hardship has been spared to produce this ultimate functional garment.

- Large splash proof thigh pockets
- Pocket on jacket front, opening from the side
- Reflective tapes on the leg and wrist tightening straps
- High thermal collar with fleece lining
- Adjustable splash hood, fluorescent yellow, under the collar



Protective hood



High collar



Thigh pocket



Protective gators



Patented 2-piece suit construction



ZipLock mechanism



Approvals:



0403

Material:





URSUIT® SEA HORSE

A top quality suit for the most demanding user. The Sea Horse model includes all of the best properties of an immersion suit. Its ergonomics is of its very own class and the comfort is superior. Thanks to the telescope waist construction it fits well and it is comfortable and light to wear. It keeps you dry regardless of how long you will stay in water. It functions perfectly in all conditions. Once you have experienced the comfort and good qualities of the Sea Horse you will hardly accept any other type of immersion suit.

- Material: Gore-Tex® fabric based upon the ePTFE membrane, which lets vapour penetrate but which is completely waterproof.
- Seam construction: double seams so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % watertight.
- Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.
- Knee and back reinforcement: double material.
- Dry zipper: opens from the right hip up to the left shoulder. The position of the zipper as well as its opening direction minimise the disadvantages of a heavy zipper when sitting and moving around.
- Telescope waist: integrated suspenders keep the trouser part up at the same time as the crotch strap keeps the upper part down. Thanks to the telescope design the trousers do not fall down in the way they may do in a one piece overall. Persons of different height can use the same suit without weakening the ergonomic features.
- Supplied in a carrying bag.

Approval:



Material:



Seam construction:



5112



Thermal hood, protects against cold water.



Protective hood, sheltering against wind and rain.



Thigh pockets, with 5-finger thermal gloves.



Chest pocket, with whistle and service kit.



Polyurethane boots with broad fitting and strong non slip soles.



Wrist seals of warming super stretch neoprene.



5111

5110

Professional use: boating suit for authorities, working suit for cold and wet conditions.
Leisure use: trolling, spinning, ice fishing, fly fishing, bird hunting, for boating in general.

URSUIT® 5020 II – THE FAVORITE AMONG PROFESSIONAL USERS

The non insulated Ursuit® 5020 II is designed for hard professional use. It has been chosen by the defence forces, border guards, sea rescue associations, and merchant vessels in several European countries. Especially for open sea conditions it has proved to be by far the best of immersion suits.

- Material: Gore-Tex® fabric based upon the ePTFE membrane, which lets vapour penetrate but which is completely watertight.
- Seam construction: double seams so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % watertight.
- Dry zipper: opens from the right hip up to the left shoulder. The position of the zipper as well as its opening direction minimise the disadvantages of a heavy zipper when sitting and moving around.
- Telescope waist: integrated suspenders keep the trouser part up at the same time as the crotch strap keeps the upper part down. Thanks to the telescope design the trousers do not fall down in the way they may do in a one piece overall. Persons of different height can use the same suit without the ergonomic features being weakened.
- Neck seal: patterned 2,5 mm super stretch neoprene. For easy dressing, the patterned rubber surface is on the outside.
- Wrist seals: super stretch neoprene, easy to dress and undress. The neoprene also keeps you warm in cold conditions.
- Thermal hood: 3 mm neoprene, protects against cold water.
- Supplied in a carrying bag.



Attached hood, protects against wind and rain.



Thigh pocket.



Reflective tapes, in accordance with the directive on marine equipment.



Sleeve pockets, with 5-finger thermal gloves.



Phone pocket, with buddy line, whistle, and service kit.



Polyurethane boots with broad fitting and strong non slip soles.

Professional use: Constant Wear Immersion Suit for work, in difficult conditions, especially at open sea.

Approvals:



0403

Material:



Seam construction:



URSUIT® BASIC

- Material: Vapour permeable and durable 4-TEX four layer fabric.
- Seam construction: double seam so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % watertight.
- Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.
- Thermal hood: 3 mm neoprene, protects against cold water.
- Neck seal: patterned 2.5 mm super stretch neoprene. For easy dressing, the patterned rubber surface is on the outside.
- Polyurethane boots, with broad fitting and strong non slip soles.
- Dry zipper: opens from the right hip up to the left shoulder. The position of the zipper as well as its opening direction minimise the disadvantages of a heavy zipper when sitting and moving around.
- Supplied in a carrying bag.



Attached hood, protects you against wind and rain.



Integrated suspenders keep the trouser part up. This avoids the falling down of the trousers, which is typical for overalls.



Sleeve pockets, with 5-finger thermal gloves.



Wrist seals: super stretch neoprene, easy to dress and undress. The neoprene also keeps you warm in cold conditions.



Thigh pocket.



Phone pocket, with buddy line, whistle and service kit.

Professional use: Constant Wear Immersion Suit for work, especially at open sea.

Approvals:



0403

Material:



Seam construction:



URSUIT® STD 5116

A suit model designed especially for canoeing, dinghy sailing and other activities done in a sitting position. The simple design concentrates on the most essential features: comfort and keeping dry, leaving out excessive details. The suit design considers especially the different measurements of the back and the front parts, to achieve maximum comfort in a sitting position.

- Material: Vapour permeable and water tight Gore-Tex®.
- Seam construction: double seams so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % watertight.
- Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.
- Neck seal: Patterned 2,5 mm super stretch neoprene. For easy dressing the patterned rubber surface is on the outside.
- Wrist seals: super stretch neoprene, easy to dress and undress. The neoprene also keeps your wrists warm in cold conditions.
- Thermal hood and gloves: 3 mm neoprene hood protects your head against cold water.
- The gloves are 5-finger type and made of 3 mm neoprene.
- Knee and back reinforcement.



Approval: 

Material: 



Thigh pocket, with thermal hood and gloves.



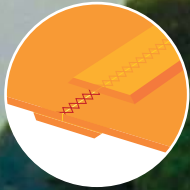
Integrated suspenders keep the trouser part up. The trousers do not fall down in the way they may do in a one piece overall.



Socks: made of Gore-Tex fabric, allows the use of footwear of different sizes and types, for different applications.



Dry zipper, with opening direction from the left shoulder to the right hip, has been designed especially for canoeing. It allows you to ventilate the suit without getting up from the canoe.



Patented low seam based on FlatSeam technology.



Leisure use: canoeing, dinghy sailing, jet ski, etc.

URSUIT® 5113 DRY INTERMEDIATE SUIT

The Ursuit® 5113 is a very lightweight dry suit, to be worn under an outer garment. Thanks to the breathable Gore-Tex® fabric, the suit will keep your underwear dry, even when worn together with outer clothing that does not breathe, for instance a floating overall. The suit is worn in situations where the outer garments have to be changed according to varying conditions.

- Seam construction: double seams so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % water tight.
- Socks: made of Gore-Tex® Gotland.
- Dry zipper: A very light new type of dry zipper, opening at the neck.
- Neck seal: Patterned 2,5 mm super stretch neoprene. For easy dressing and undressing the patterned rubber surface is on the outside.
- Wrist seals: super stretch neoprene, easy to dress and undress. The neoprene also keeps you warm in cold conditions.



Professional use: As a dry intermediate suit, for instance under a uniform or fire protection suit.

Leisure use: Boating, sailing, canoeing, sports fishing, under a floating overall or similar outer garment.

Approval: 

Material:



Seam construction:



URSUIT® ONE-SIZE - ONE SIZE FOR MANY USERS

The One Size is a patented suit (patent no 95554), which adapts itself to the measurements of the user. One Size is the suit for adventure traveling and safari excursions. It is also the right choice for companies with rental activities, that wish to take care of the safety of their customers, in all conditions. Thanks to the construction of the model the need for different sizes is minimised. One Size is approved in accordance with the directive on marine equipment. It is also fit for the varying personnel and passengers on board merchant vessels. One Size grows or gets smaller together with the user. The smallest family members do not have to be left on shore or be sent out to sea without adequate equipment.

- Material: Vapour permeable and watertight 4-TEX.
- Seam construction: The double seams have an inside elastic, which allows the suit to expand to the measurements of the user. Inside the seams are heat seal taped and reinforced for 100% water tightness.
- Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.



Hood: Attached 4-TEX stretch hood, which can be put down around the neck. Separate 3 mm neoprene hood.



Thermal hood, protecting against cold water.



Socks: made of 4-TEX fabric, allowing the use of footwear of different sizes and types, for different applications.



Sleeve pockets, with 5-finger thermal gloves.



Neck seal: made of pleasant elastic 4-TEX.



Seam construction.



Approvals:



0403

Material:



URSUIT® 5106 MED ORANGE/URSUIT® 5108 PRO BLACK

- Material: Gore-Tex® fabric based upon the ePTFE membrane, allowing vapour to get through but remaining completely watertight.
- Seam construction: double seams so that the seam will not open even when worn. Inside the seams are heat seal taped and reinforced to be 100 % watertight.
- Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.
- Boots: Polyurethane boots with broad fitting and strong non slip soles.
- Knee and back reinforcements: Cordura.
- Thermal hood: 3 mm neoprene hood, which protects against cold water.
- Attached hood, which protects against wind and rain.
- Supplied in a carrying bag.

Professional use: Boating suit for authorities, working suit for cold and wet conditions. Especially suitable for emergency situations with quick departures.

Leisure use: Trolling, spinning, ice fishing, fly-fishing, boating, bird hunting, etc.



The dry zipper opens from the neck and it feels pleasant both completely closed and slightly open.



Elastic waist band: The vertical elastic bands at the sides of the suit keep the trouser part up, preventing their falling down, which is typical for overalls.



Gloves: 5-finger, made of 3 mm neoprene.



Pockets: Two thigh pockets, with 5-finger thermal gloves and service kit. Two chest pockets.



5106 MED

Approvals:



0403



5108 PRO

URSUIT® HEAVY LIGHT RESCUE

The Heavy Light Rescue Suit has been developed for demanding rescue and surface rescue work. The material is a very light but yet durable three layer fabric.



Ergonomically fitting neoprene hood.



Front zipper. Allows you to dress without help. The protective strip of the zipper prevents the BC from rubbing on the zipper teeth, and protects the dry zipper against sand and dirt.



Integrated loops for drying.



Telescope waist: integrated suspenders keep the trouser part up at the same time as the crotch strap keeps the upper part down. Thanks to the telescope design the trousers do not fall down in the way they may do in a one piece overall. Persons of different height can use the same suit without the ergonomic features being weakened.



The special cut of the sleeves add to the ergonomics.



Reflective tapes: The suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment. The reflective triangle on the back shows the direction of the diver.



Knee and back reinforcements: double material. In addition, the knees have polyacrylate reinforcements.



4 mm neoprene boots with latex surface, reduce the need for extra insulation. Right sizing prevent additional air from getting into the boots, which would create buoyancy. Heel strap retainers keep the fins safely in place.



Approval:



Seam construction:



Professional use: Rescue diving, surface rescuing.



URSUIT® 5001 SURVIVAL SUIT

- Material: flame retardant 5 mm cell neoprene
- Seams: glued and sewn
- Colour: red
- Reflective tapes: placed in accordance with the directive on marine equipment
- Ergonomic qualities: one size, fits persons up to 195 cm
- Oil resistant rubber soles
- Adjustment straps at the ankles
- Dry zipper: opens at the left ear
- 1 chest pocket with velcro fastener
- Whistle
- Buddy line on the left sleeve
- Attached 5-finger thermal gloves, with polyurethane surface
- Attached neoprene hood with face seal
- Supplied in a carrying bag
- Optional equipment:
 - Thermal insulation at the small part of the back
 - Signal light
 - Thigh pockets
 - Phone pocket
 - Lifting strap with carbine hook
 - Reinforcements on the knees
 - Dry zipper on the right sleeve – allows working with one bare hand
 - On special request: sizes S and XXL

Application:

For the merchant fleet: Abandonment suit for the crew on board merchant vessels and open rescue boats.

Fishing vessels: Isolated survival and rescue suit for the crew on board fishing boats.

Approvals:



0403



URSUIT® 5030 OVER WATER FLIGHT SUIT

- Material: most durable Gore-Tex® Gotland three layer fabric which breathes
- Seams: double seams so that the seam does not open even if worn. Inside heat seal taping and reinforcement that guarantees 100 % water tightness
- Colour: orange or green
- Sizes: 46 – 58
- Reflective tapes: the suit is equipped with several reflective tapes in right places, which assure visibility in all conditions. The soft and durable reflective tapes are developed by 3M in accordance with the directive on marine equipment.
- Adjustable waist elastic
- Gore-Tex® socks, leg zippers
- Reinforcement on the knees
- Reinforcement at the backside
- Dry zipper from the left shoulder to the right hip
- Integrated suspenders

- 2 large thigh pockets with velcro fasteners, velcro fasteners for chart pockets
- 1 knife pocket on the right thigh
- 1 phone pocket on the left thigh
- 2 chest pockets with zippers
- 2 velcro fasteners for the attachment of badges on both shoulders
- 2 light pockets on the sleeves
- 2 pen pockets on the sleeves
- 2 leg pockets
- Wrist seals of super stretch neoprene, keep the wrists warm.
- Thermal 5-finger gloves of neoprene, with velcro fasteners
- Thermal hood of 3 mm neoprene
- Supplied in a carrying bag.

Application: Working suit for helicopter crew and ground staff.



Leg protector



Knife pocket



Phone pocket



Pen / light pocket

Approval: 

Material:



Seam construction:





URSUIT® X-TEX HEAVY UNDERWEAR / URSUIT® X-TEX LIGHT UNDERWEAR

The X-Tex/Finnfill underwear is elastic and watertight, and it provides perfect thermal insulation. It is manufactured of a four layer material, with Finnfill fibre as insulating layer, and breathable watertight X-Tex membrane as intermediate layer. The surface is of elastic and slippery tricot fabric, and the inner lining of fleece. The suit features are front zipper with double locks, chest pocket with zipper, large hip pockets, elastic fabric in the collar, cuffs and legs, thumb and leg retainers and strong elastic waist band.

URSUIT® THERMAL UNDERWEAR OF QUILTED FABRIC

The square patterned quilted underwear has a slippery outer surface and is equipped with breathable floating panels on the chest and back. Thanks to the breathing properties, the suit also always feels dry beneath the floating material. The suit features are front zipper with double locks, chest pocket with zipper, elastic waist band, attached socks and elastic fabric in the collar and cuffs.

URSUIT® COOLMAX UNDERWEAR

A technical undersuit made of a special material that wicks moisture away from the body, keeping you comfortable and dry.



Thumb retainer



Chest pocket



Leg retainer



Material

QUILTED FABRIC

COOLMAX

X-TEX LIGHT

OPTIONAL EQUIPMENT

- Special reinforcements of durable polyacrylate on knees, back, elbows or shoulders
- Breathable 5 mm knee pads under the knee reinforcements
- Breathable 3 mm padding under the back reinforcement
- All suits equipped with boots can be made with socks
- All suits equipped with socks can be made with boots
- Steel toe cap work boots
- Thermal boots
- Customer's own boots can in most cases be attached to the suits
- The suit pockets can be adjusted for special requirements
- Signal light
- Neck and wrist seals of latex



Carrying bag



Buoyancy vest 70 N
for the AES suit



Cuff rings for
dry gloves



Relief zipper



Attached stretch hood
and neck seal



Thermal boots



Safety boots



Neoprene boots

URSUIT® IMMERSION SUITS

SIZE CHART

Suit Size	Height	Chest	Boots*
01/S	152-164 cm	88-96 cm	40
02/M	164-170 cm	96-104 cm	42
03/L	170-182 cm	104-112 cm	44
04/XL	182-194 cm	112-120 cm	46
05/XXL	194-200 cm	120-128 cm	48

ONE-SIZE

Suit size	Height	Chest	Socks
S (small)	120-160 cm	60-80 cm	S
M (medium)	160-190 cm	80-100 cm	M
L (large)	190-210 cm	100-120 cm	L

* 38 on special request.



URSUIT®