



FORCEFIELD
BODY ARMOUR

Forcefield Information sheet-

WHAT MAKES FORCEFIELD BODY ARMOUR® DIFFERENT?

Forcefield has led the way in introducing the concept that body armour doesn't have to be hard, rigid and uncomfortable to wear. We are market leaders in soft armour technology. We design our body armour so that it is flexible, moulds to the users' body, stays in place and so comfortable that you forget you are wearing body armour. As importantly we have proven that the performance is superior to the more mainstream hard plastic protectors. Forcefield doesn't design products based on price. It designs to performance and comfort first.

HOW RELEVANT/IMPORTANT ARE THE CE STANDARDS?

All Forcefield Body Armour® is CE approved which is essential to maintain a credible product that has proven performance. The CE testing standards for limb and back take into account protection, comfort and ergonomic requirements. Armour that conforms to the standard is proven to reduce the incidence and severity of injuries. With authentic CE approved limb or back protectors the end user at least knows that extensive research and testing has gone into the development of the product and that it has been accredited by an authorised body. It has a value! It's not just the manufacturer making claims that cannot be substantiated.



WHAT IS NITREX®?

Nitrex® is the family name for the PVC Nitrile materials used within Forcefield Body Armour®. Almost without exception every Forcefield Body Armour® product is made using a triangular grid material that we call Moulded Nitrex®.

This is made of interconnecting walls where the width of the wall at the base is always wider than at the top. This is triangular in shape and these walls all interconnect which means that the material is structurally solid and sound.

It isn't just down to the design. It's as much down to the Nitrex formula which is a shock absorption material with outstanding performance characteristics. Its light, its elastic, it has a slow recovery and is robust.

Poor materials when impacted will compress too much allowing too much energy to pass through; it's what we call "bottoming out". It bottoms out without doing its job and is effectively useless!

You could say a very hard material when impacted won't compress so this would be good! But this isn't the case either as they will transmit energy directly through and not absorb any energy at all. So you get materials that are too soft and too hard.

The ideal material is one that on impact compresses to a degree but then slowly returns to its original shape and size. This means that you are maximising the length of time so that as much energy can be absorbed.

So on impact what you are trying to do is delay as long as possible the moment of peak transmitted force. This force is what does the damage to the body. So the better the material the longer this moment is delayed. The time is measured in milliseconds. Nitrex® slows the moment of peak transmitted force and spreads the damaging forces over the whole surface which means that the material is used to its maximum.



Action Short

A unique product for any adventure sport. The very latest high wicking BeCool fabric, mated to Forcefields own Nitrex triple (Sport) or 4 (Pro) layer armour- this is for any sport where performance, protection, and comfort are essential. The Ultimate impact short- that also acts as a base layer!

You will be aware of base layers, and body armour, this is the only high performance full CE approved short to combine the very best of both worlds.

One of the only impact shorts on the market where every piece of armour is CE approved, both the Sport, and Pro Version smash the CE limb standard. (In the CE limb test the armour must pass at 35kN, or less. The triple Sport armour passes at under 19kN, the Pro- 4 layer armour passes at under 9kN, incredible.)

Armour is situated on the thigh, Hip, Cocyx and buttock areas, providing an all round protection, in a short that fits perfectly, and will not restrict the wearer in sport, or competition.

Put simply, the most protective and professional impact short available.

Constructed from BeCool™, a unique fibre that has a greater diffusive area than standard fibre, this ensures high levels of breathability and comfort. During exercise the unique shape of the BeCool™ fibre means it acts like a fan extracting hot and wet air away from the body and replacing it with cool and fresh air.

The low profile Nitrex® CE approved armour is removable to allow the short to be machine washed for maximum hygiene. The product is aimed firmly at high energy, impact sports, where only the best will count.

Sizes Available: X-Small, Small, Medium, Large, X-Large

Qualities of all Forcefield Products-

Multi Density

By using a combination of specialised high-tech energy absorbing materials, we can provide protectors that are less bulky than our competitors whilst offering unrivalled protection.



Nitrex

This patented technology allows protection evenly across its surface. Most hard shell/plastic protectors will perform differently across its surface. You never know where the impact will strike!



Repeat Performance Technology

The materials we use offer repeat performance technology. Hard shell protectors can only take one impact and should be discarded immediately after a fall.



Flexibility

A combination of Nitrex technology and Multi layers has enabled Forcefield to offer more lightweight and flexible protectors. This allows the armour to flex with the body and not be restricted by it.



Breathability

The unique triangular Nitrex outer grid has been designed to allow vent holes at the base which allows breathability but also reduces weight.



BeCool

BeCool™ is a polyamide fibre with integrated airflow control. Through a four-channelled section BeCool™ has a greater diffusion surface than ordinary rounded sections. These four channelled sections increase efficiency in maintaining body temperature by efficient body cooling.

