



## TECHNICAL SPECIFICATION AND INFORMATION ON THE F100 MASK

The F100 is a unisex 350 Newton mask and is suitable for Foil and Epee. It is graded in our club competition range. The F100 mask is comprised of three main sections:

1. Spring Case
2. The Mask Shell
3. The Bib



### 1. The Spring Case

A section held on by a single rivet, the spring case is riveted to the back of the mesh reducing the chance of it failing or breaking after prolonged use and bending. This is particular useful when utilized in schools or junior fencing when it is likely that the spring case will be subjected to an high amount of bending and usage.

### 2. The Mask Shell

For absolute comfort during use it is recommended that the mask is sold with a removable absorbent washablevisor our reference number 56.

- The mask is the only one available with an adjustable visor, by repositioning the two velcroed arms of the visor different fittings can be obtained.
- The chin padding is made with sufficient padding to perform its necessary protective functions, but is minimized in area to allow unrestricted breathing with reduced possibility of hyper ventilation.
- The wire mesh is the strongest possible non stainless steel wire which can be woven but which we can still form and all the joints are welded using a continuous seam welding process for maximum strength.
- The mesh is hot tin dipped (not plated) giving a strong fllet of tin at each wire interweave site. Over many years hot tin dipping of mask shells has been found to produced the strongest and longest life product.
- The nylon coating is shrunk on to the mesh during the hot curing process. The nylon coating not only helps the strength of the mesh but due to its high strength and resilience does not chip when hit by an opponents point. (Some of the epoxy coatings have been found when hit hard to chip in a dangerous way causing small particles to become embedded in the eye.)
- The shape of the shell conforms to F.I.E. regulations with the front angle less than 130 degrees and the maximum possible depth of shell.
- The final touch is that the internal portion of the shell through which the fencer looks is sprayed after nylon coating with matt black paint to prevent internal reflections from the gloss surface of the black nylon coating..



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### 3. The Bib

- New 350 Newton outer bib material as used in our F.I.E clothing.
- New thicker foam gives better protection and helps to hold the bib in the correct shape.
- New design shape bib to fit the body and prevent the bib from creasing.
- F.I.E. Style flank protection, which is achieved by double sewing extra double thickness 350 Newton side flaps, which means there are no weak points at the bib to mask shell boundary.
- The internal cloth is water proof with the P.U. coating on the inside of the lining keeping the cloth in contact with the skin as soft as possible.

We have always made our linings waterproof for two main reasons:

- i. It prevents sweat causing the mask bib to short to the lame, which results in off target hits registering valid when the bib is hit.
- ii. After a short period of time sweat sinks into the surface of absorbent linings and the mask in a very short time starts to smell bad. Our linings can be wiped down with a damp cloth after fencing and therefore retain their freshness.