

# Tsetse

*Traps and Targets*





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# Introduction

There are 22 species of tsetse flies that transmit a group of parasites, causing the disease trypanosomiasis, which in one form or the other is prevalent throughout most of Africa. It accounts for sickness and deaths among livestock and agricultural losses, thus enhancing rural poverty. In humans, trypanosomiasis is better known as 'sleeping sickness', which is endemic in some parts of Africa.

Vestergaard Frandsen manufactures various types of tsetse fly traps and targets. These traps and targets, in blue and/or black attractant cloth screens, are impregnated with deltamethrin, a biodegradable insecticide, and function by attracting the tsetse flies to the cloth screens that trap and/or kill them. This technique reduces tsetse numbers significantly.

Traps and targets can both be used to eliminate a vast portion of the tsetse population. While targets are used only for control, traps can also be used for entomological surveillance. Moreover, tsetse traps have the advantage of being cost-effective and community-based. For scientific purposes, the traps can be supplied without insecticide.

Different models of traps and targets have been designed for use against specific target species in specific environments.

The insecticide treatment of the traps and targets will last approximately one year depending on local conditions. The colour fastness of the fabric will last two to three years, also depending on local conditions.

Specifications of different models are provided in this catalogue. Prices and further details are available on request.

# Available Models



Tsetse Targets



Tsetse Trap - Pyramidal Model



Tsetse Trap - Biconical Model



Tsetse Trap - NZI Model



Tsetse Trap - NGU Mode



Tsetse Trap - H-Trap Model



Tsetse Trap - S-3 Trap



Tsetse Trap - Vavoua Model



## Tsetse Targets

Description	Two pieces of Phtalogen blue fabric sewn with one piece of black fabric in the middle (each 73.3 cm x 70 cm) Can be tailor-made according to customer requirements
Size	Width - 220cm Height - 70 cm
Accessories	Rods, frames, swivels or sticks are not supplied
Composition	Blue and black opaque fabric - 100% Polyester
Weight	Coloured fabric - 114 grams/sqm
Width	Coloured fabric - 150 cm
Yarns	Coloured fabric - 150 deniers, multifilament, texturised
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.18-0.20 kg / 0.0015 m <sup>3</sup> per target; approximately 17,300 pieces in one 20ft'



## Pyramidal Model

Type	Tsetse Trap
Size	Blue fabric - 0.93 sqm Black fabric - 0.79 sqm
Accessories	Rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 1.44 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.410kg/0.0018 m <sup>3</sup> each, per trap; approximately 15,500 pieces in one 20ft'



## Biconical Model

Type	Tsetse Trap
Size	Blue fabric - 1.55 sqm Black fabric - 1.629 sqm
Accessories	Ring is supplied; rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 1.44 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.46-0.49 kg / 0.0034 m <sup>3</sup> each, per trap; approximately 8,200 pieces in one 20ft'



## NZI Model

Type	Tsetse Trap
Size	Blue fabric - 1.58 sqm Black fabric - 0.92 sqm
Accessories	8 cloth loops are supplied - Velcro hook inside cloth loop and PVC tube by another; rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 2.09 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC 16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.385 kg / 0.0014 m <sup>3</sup> per trap; approximately 20,000 pieces in one 20ft'



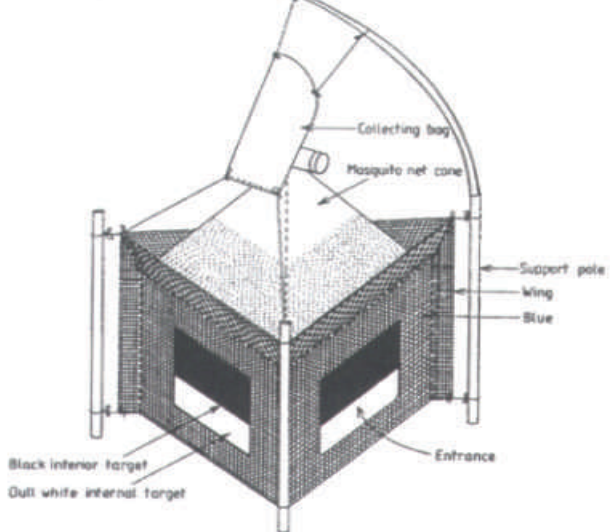
## NGU Model

Type	Tsetse Trap
Size	Blue fabric -2.91 sqm Black fabric - 0.893 sqm
Accessories	Rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 0.68 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.48 kg / 0.0017 m <sup>3</sup> per trap; approximately 16,500 pieces in one 20ft'



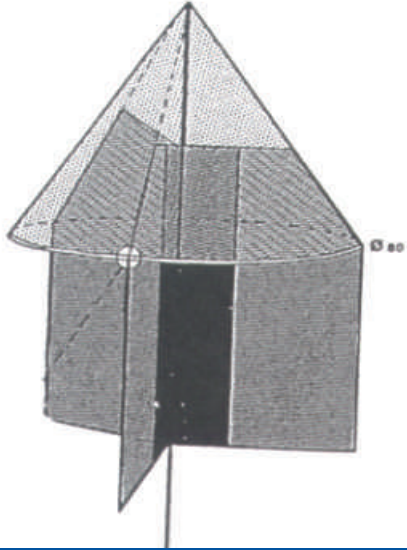
## H-Trap Model

Type	Tsetse Trap
Size	Blue fabric - 2.33 sqm Black fabric - 0.95 sqm
Accessories	8 rods are supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/ sqm; Coloured fabric - 114 grams/ sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 2.0 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.51-0.53 kg / 0.0018 m <sup>3</sup> each, per trap; approximately 13,750 pieces in one 20ft'



## S-3 Trap

Type	Tsetse Trap
Size	Blue fabric - 3.3 sqm Black fabric - 1.08 sqm White fabric - 0.6 sqm
Accessories	Rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 0.73 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.700 kg / 0.0024 m <sup>3</sup> each, per trap; approximately 11,700 pieces in one 20ft'



## Vavoua Model

Type	Tsetse Trap
Size	Blue fabric - 0.61 sqm Black fabric - 0.5 sqm
Accessories	Ring is supplied; rods, frames, swivels or sticks are not supplied
Composition	Netting Material - 100% Polyester, monofilament, white colour Blue and black opaque fabric - 100% Polyester
Weight	Netting Material - 60 grams/sqm; Coloured fabric - 114 grams/sqm
Width	Netting Material - 150 cm; Coloured fabric - 150 cm
Yarns	Netting Material - 150 deniers: 1.44 sqm, multifilament, texturised Coloured fabric - 150 deniers, multifilament, texturised
Mesh	156/inch <sup>2</sup> = 25/cm <sup>2</sup>
Tensile Strength	Coloured fabric - 58 kgs (Warp), 46 kgs (Weft)
Tear Strength	Coloured fabric - 3575 grams (Warp), 3209 grams (Weft)
Flammability	Flammability of netting and fabric tested CPSC16 part 1610 cs 191-53 (US)
Colour Fastness	Colour fastness of the fabric is 6-7 and top of the colour scale for both water and light (ISO 105 B02: 1994) The fabric is treated to give minimal UV-reflection. UV-resistance chemicals add to the lifetime of the fabric - up to 4 times longer than other fabrics
Transport	0.40 kg / 0.0033 m <sup>3</sup> each, per trap; approximately 8,500 pieces in one 20ft'

# Global Logistical and Customer Support

Vestergaard Frandsen works with a multitude of local partners to provide the exceptional service of delivering products to in-country destinations rather than simply shipping them to the container port, as is the case with most other suppliers.

We have developed a distribution network across the African continent, establishing delivery channels for deeper penetration inland and ensuring a seamless delivery to the end destination.

Vestergaard Frandsen also has warehouse facilities in the remotest parts of the world, allowing the company to help programme implementors distribute our products affordably and efficiently.

With 11 regional offices across Europe, Africa, Asia and the Americas, Vestergaard Frandsen provides an exceptional local and international customer service. Being close to the market is an unequivocal benefit for our customers and partners, allowing rapid and proactive service and market intelligence.

# Customer Support Offices

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