

# ***Fishery Nets***



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# ***Fishery Nets***

## **Overview**

For the production of yarns and nets, usually plastic is used today, which is made from synthetic polymers through various poly-reactions. These are mainly thermoplasts (plastomers), like polyamide (PA), polyethylene (PE) and polypropylene (PP), as well as polyester (PES). From this materials, plastic fibres are produced, which are either twisted or braided to yarns. This yarns are then connected to flexible nets with rhombic or square meshes in different sizes. The mesh size is mentioned at sieve-nets and grid-nets as mesh opening (distance between two parallel yarns), at all other nets as mesh size (distance from middle of knot to knot), but not as stretched mesh.

Monofilament nets are made from a single yarn fibre. Beside the mesh opening and yarn thickness, also the open area is important for this precision nets. For plankton-nets mesh openings of 100-2000  $\mu\text{m}$  (micro-meter) are used, for other applications (filter-screens) also much smaller mesh openings (10-100  $\mu\text{m}$ ). Gillnets (pelagic or benthic nets) are also made from monofilament yarns, however, not woven but knotted in mesh sizes of 10-150 mm.

Multifilament nets are made from several yarn fibres. Beside the mesh opening and yarn thickness, also the production technique is important for this special nets. For cage-nets knotted or better knotless nets with mesh sizes of 4-50 mm and for protection-nets knotted or woven nets with mesh sizes of 12-150 mm are used. Multifilament yarns are either made from relatively thin (<50  $\mu\text{m}$ ) fibres, or stapled from relatively thick (100-500  $\mu\text{m}$ ) fibres.

Knotted nets are made by knots (usually single- or double-knot). Knotted nets are heavier, more complicated in production and more expensive, than knotless nets. The weakest point is the knot itself, as this can be worn away more easily or heavier overgrown from organisms with time. Also fish can be injured by the knot, which can result in damages of the eyes, fins or skin of the fish.

Knotless nets are made by connections (usually braided or woven). For fish-nets and cage-nets, braided connections are much better as these are way more stable, but for bird-nets and shade-nets, also woven connections can be used very well as these are considerably cheaper.

We offer a complete product range of mono- or multifilament nets in various yarn thickness and mesh sizes, either as net-material on coils or as confectioned and ready to use products (like: gill-nets, trammel-nets, seine-nets, fyke-nets, trap-nets, dip-nets, scoop-nets, and cage-nets etc.). Colorations or impregnations (antifouling) are possible optionally.

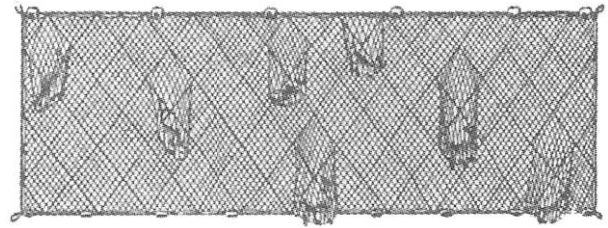
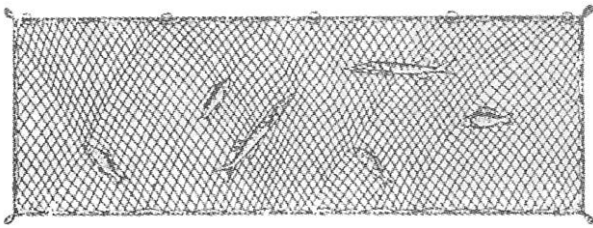
**Consulting:**

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# ***Fishing Nets***

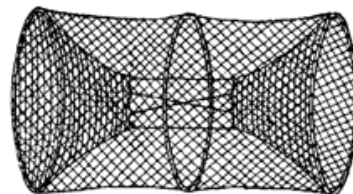
## **Selection**



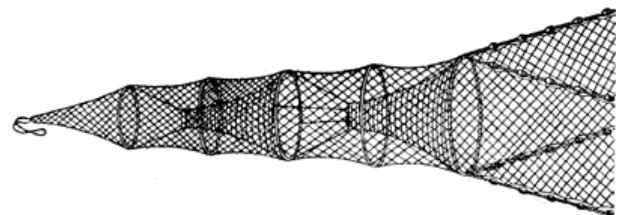
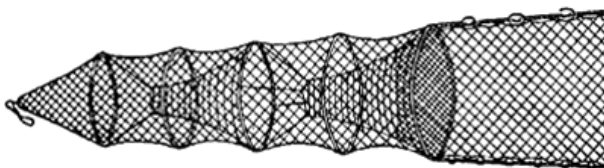
Single- or triple-walled gillnets



Seine nets without or with bag



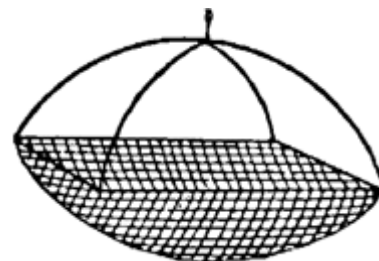
Trap nets with one or two throats



Trap nets with one lead- or two wing-nets



Crayfish dip nets with one or two hanger



Dip-drop nets without frame

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# Fishing Nets

## Gill Nets

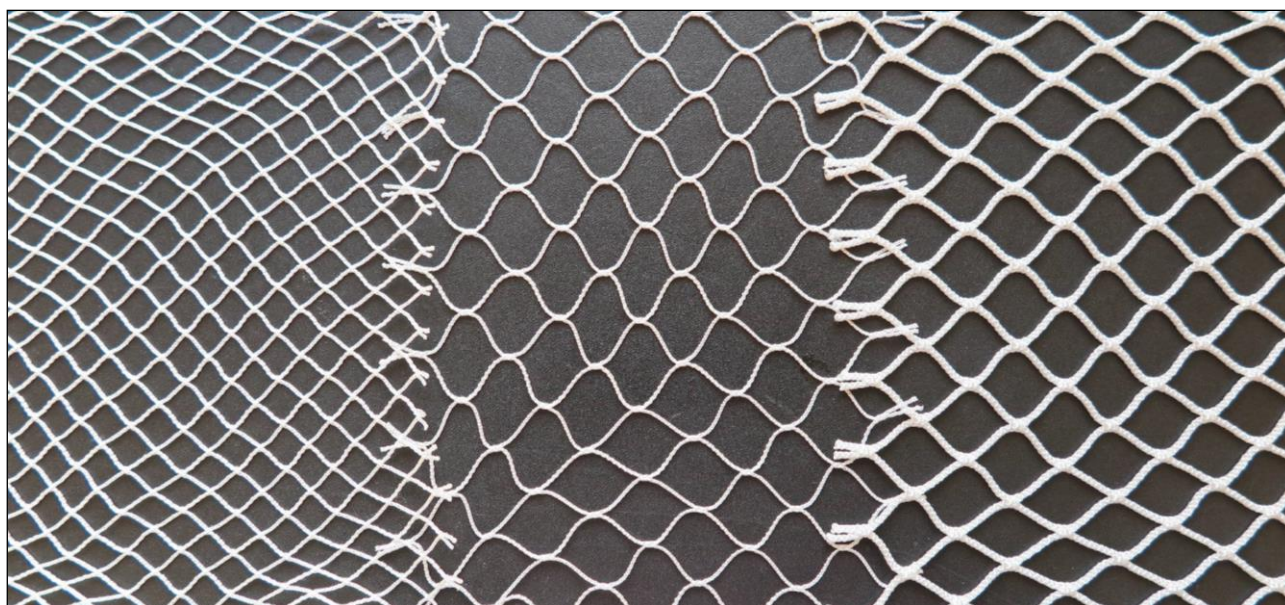
| Model               | Gillnets                    |       |       |           |       |           |       |        |
|---------------------|-----------------------------|-------|-------|-----------|-------|-----------|-------|--------|
| Type                | KN-05                       | KN-10 | KN-20 | KN-30     | KN-40 | KN-50     | KN-70 | KN-90  |
| Mesh size (mm)      | 5-9                         | 10-15 | 16-29 | 30-39     | 40-49 | 50-59     | 60-79 | 80-110 |
| Yarn thickness (mm) | 0,10-0,16                   |       |       | 0,16-0,20 |       | 0,20-0,28 |       |        |
| Connection          | single- or double-knot      |       |       |           |       |           |       |        |
| Material            | polyamide monofilament      |       |       |           |       |           |       |        |
| Colour              | nature (transparent)        |       |       |           |       |           |       |        |
| Confection          | Drift-, Float-, Ground-nets |       |       |           |       |           |       |        |
| Options             | Nordic-, Multi-mesh-nets    |       |       |           |       |           |       |        |
| Accessory           | Net-holder                  |       |       |           |       |           |       |        |

All data are average values ( $\pm 10\%$ ). Other yarn thickness or mesh sizes, on request!

## Fish Nets

| Model                   | Fishnets                                      |       |       |                     |       |         |       |       |
|-------------------------|---|-------|-------|---------------------|-------|---------|-------|-------|
| Type                    | FN-04   | FN-06 | FN-08 | FN-10               | FN-15 | FN-20   | FN-25 | FN-30 |
| Mesh size (mm)          | 4   | 6     | 8     | 10                  | 15    | 20      | 25    | 30    |
| Yarn thickness (mm)     | 0,4-0,8                                       |       |       | 0,8-1,2             |       | 1,2-2,0 |       |       |
| Yarn breaking load (kg) | 10-20   |       |       | 20-40               |       | 40-80   |       |       |
| Connection              | knotless                                      |       |       | knotless or knotted |       |         |       |       |
| Material                | polyamide or polyester multifilament          |       |       |                     |       |         |       |       |
| Colour                  | white   |       |       |                     |       |         |       |       |
| Confection              | Seine-, Trap-, Fyke-, Dip-, Scoop-, Cage-nets |       |       |                     |       |         |       |       |
| Options                 | Colouration, Impregnation                     |       |       |                     |       |         |       |       |

All data are average values ( $\pm 20\%$ ). Other yarn thickness or mesh sizes, on request!



Knotless net-material

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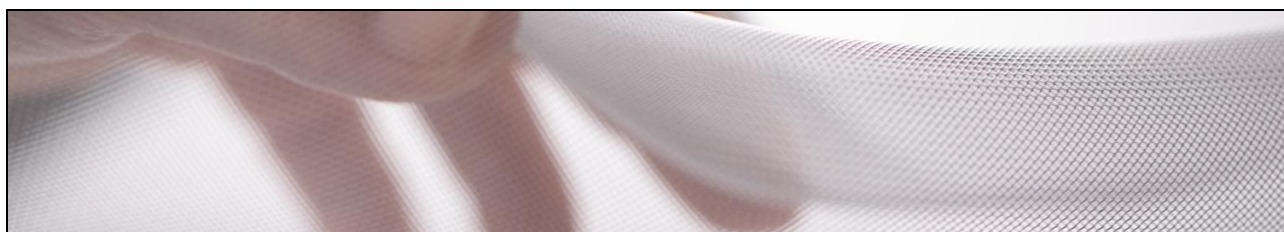
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# Special Nets

## Sieve Nets

| Model                      | Sieve-nets                      |        |        |        |        |        |        |         |
|----------------------------|---------------------------------|--------|--------|--------|--------|--------|--------|---------|
| Type                       | ST-150                          | ST-200 | ST-250 | ST-330 | ST-400 | ST-500 | ST-700 | ST-1000 |
| Mesh opening (µm)          | 150                             | 200    | 250    | 330    | 400    | 500    | 700    | 1000    |
| Yarn thickness (µm)        | 110                             | 100    | 120    | 160    | 160    | 220    | 260    | 500     |
| Open surface (%)           | 43                              | 43     | 44     | 46     | 52     | 50     | 52     | 44      |
| Weight (g/m <sup>2</sup> ) | 80                              | 75     | 95     | 120    | 105    | 146    | 155    | 410     |
| Coil wide (m)              | 1,13-2,59                       |        |        |        |        |        |        |         |
| Coil length (m)            | 50-100                          |        |        |        |        |        |        |         |
| Material                   | polyester monofilament knotless |        |        |        |        |        |        |         |
| Colour                     | white                           |        |        |        |        |        |        |         |
| Options                    | mesh openings 10-1950 µm        |        |        |        |        |        |        |         |

All data are average values (±10 %). Minimum order is one coil!



## Cage Nets

| Model                      | Grid-nets   |       |       |       |
|----------------------------|---|-------|-------|-------|
| Type                       | HG-05   | HG-12 | HG-20 | HG-40 |
| Mesh opening (mm)          | 5   | 12    | 20    | 40    |
| Weight (g/m <sup>2</sup> ) | 450   | 500   | 790   | 490   |
| Yarn breaking load (kN)    | 40  | 40    | 90    | 45    |
| Yarn elongation (%)        | 15  | 15    | 20    | 20    |
| Coil wide (m)              | 3,6   | 3,6   | 5,0   | 5,0   |
| Coil length (m)            | 100   |       |       |       |
| Material                   | polyester multifilament knotless covered with polymer |       |       |       |
| Colour                     | black   |       |       |       |
| Options                    | confection  |       |       |       |

All data are average values (±20 %). Minimum order is one coil!



If questions, please contact:

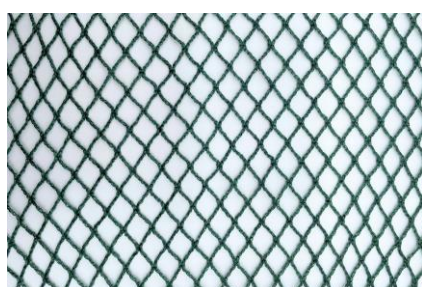
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# Protection Nets

## Bird Nets

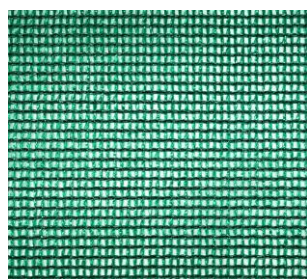
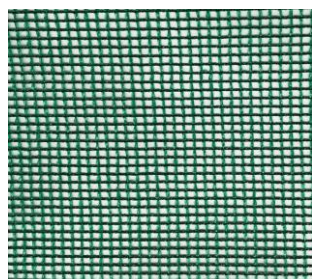
| Model                      | Bird-nets                           |        |        |        |
|----------------------------|-------------------------------------|--------|--------|--------|
| Type                       | AF-300                              | AF-301 | AF-302 | AF-303 |
| Mesh size (mm)             | 12                                  | 20     | 25     | 30     |
| Weight (g/m <sup>2</sup> ) | 51                                  | 34     | 27     | 23     |
| Coil wide (m)              | 10                                  | 16     | 20     | 24     |
| Coil length (m)            | 100                                 | 200    | 200    | 200    |
| Material                   | polyethylene multifilament knotless |        |        |        |
| Colour                     | green (blue on request)             |        |        |        |
| Options                    | cutting                             |        |        |        |



Mesh size: 12 – 20 – 30 mm

## Shading Nets

| Model                      | Shade-nets                          |        |        |        |
|----------------------------|-------------------------------------|--------|--------|--------|
| Type                       | AF-201                              | AF-202 | AF-203 | AF-204 |
| Shading (%)                | 50                                  | 65     | 75     | 85     |
| Weight (g/m <sup>2</sup> ) | 125                                 | 140    | 160    | 250    |
| Coil wide (m)              | 3                                   |        |        |        |
| Coil length (m)            | 100                                 |        |        |        |
| Material                   | polyethylene multifilament knotless |        |        |        |
| Colour                     | green                               |        |        |        |
| Options                    | cutting, slams and eyes             |        |        |        |



Shading: approx. 50 – 65 – 75 – 85 %

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# Plastic Traps

## Properties

| Model                 | Plastic-trap                   |               |      |
|-----------------------|--------------------------------|---------------|------|
|                       | KP-0                           | AP-1          | AP-2 |
| Type                  |                                |               |      |
| Throats (pc.)         | 2                              | 1             | 2    |
| Grid distance (mm)    | 10-12                          | 8-10          | 8-10 |
| Weight (kg)           | 0,8                            | 2,8           | 4,8  |
| Maximal diameter (cm) | 30                             | 42            | 46   |
| Total length (cm)     | 60                             | 106           | 153  |
| Animals               | Crayfish, Crabs                | Eels, Smelts  |      |
| Material              | Polyethylene                   | Polypropylene |      |
| Colour                | brown (blue)                   | black         |      |
| Outfit                | bait-basket and sinker-weights |               |      |



Eel-trap/Smelt-trap



Crayfish-/Crab-trap

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