Meshes and mesh constructions
«UniFence» –
is a subsidiary of JSC «Severstal-Metiz»
focused on the manufacturing of steel meshes and
apertur, based at the factories in Cherepovets and
Orel (Russia).
Meshes and Mesh Constructions

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SINGLE-PLAITED STEEL MESH
GOST 5336-80

APPLICATION AREA:
Mesh is suitable for use in the mineral, construction, industrial, agricultural, mechanical and power engineering sectors, for applications including:
• excavation fixing
• materials bolting
• concrete reinforcement
• heat-shielding of industrial equipment and pipelines
• fencing manufacture

SPECIFICATIONS:
Non coated and non-heated diamond mesh №15 of 1.6 mm diameter group 2:
Mesh 2-R-15-1.6 GOST 5336-80
Zinc coated and non-heated diamond mesh №15 of 1.6 mm diameter group 2:
Mesh R-15-1.6-O GOST 5336-80
Square mesh №20 manufactured from zinc-coated wire of 2.0 mm diameter:
Mesh 20-2.0-O GOST 5336-80
Square mesh №35 produced in compact rolls, manufactured from zinc-coated wire of 2.5 mm diameter:
Mesh 35-2.5-O-K GOST 5336-80

MESH DESCRIPTION:
The steel meshes are manufactured from diamond (rhomb’s acute angle equals 60°) or square (angles equal 90°) aper-
tures, based on non-heat-treated wire without coating or coated with zinc TU 14-4-1563-89; available in compact and
normal rolls.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without coating</td>
<td>coated with zinc</td>
<td>Breadth, mm</td>
<td>Estimated weight 1m², kg</td>
</tr>
<tr>
<td>5</td>
<td>1.2</td>
<td>–</td>
<td>1000</td>
<td>3.798</td>
</tr>
<tr>
<td>6</td>
<td>1.2</td>
<td>–</td>
<td>1000</td>
<td>3.583</td>
</tr>
<tr>
<td>8</td>
<td>1.2</td>
<td>–</td>
<td>1000</td>
<td>2.780</td>
</tr>
<tr>
<td>8</td>
<td>1.4</td>
<td>–</td>
<td>1000</td>
<td>3.800</td>
</tr>
<tr>
<td>10</td>
<td>1.2</td>
<td>–</td>
<td>1000, 1500</td>
<td>2.045</td>
</tr>
<tr>
<td>Mesh №</td>
<td>Diameter of wire, mm</td>
<td>Breadth, mm</td>
<td>Estimated weight 1m², kg</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>without coating</td>
<td>coated with zinc</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1.4</td>
<td>1000, 1500</td>
<td>2.713</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>1.4</td>
<td>1000, 1500</td>
<td>2.243</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>1.6</td>
<td>1000, 1500</td>
<td>2.466 (2.570)</td>
</tr>
<tr>
<td></td>
<td>Diamond apertures</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>2.0</td>
<td>1000, 1500</td>
<td>2.500 (2.660)</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>2.0</td>
<td>1000, 1500, 2000</td>
<td>2.150 (2.169)</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>2.5</td>
<td>1000, 1500, 2000</td>
<td>3.360 (3.360)</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>2.0</td>
<td>1000, 2000</td>
<td>1.429 (1.560)</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>2.5</td>
<td>1000, 2000</td>
<td>2.440 (2.440)</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>2.0</td>
<td>2.0</td>
<td>1.190</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>2.5</td>
<td>1500, 2000</td>
<td>1.870 (1.790)</td>
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<tr>
<td></td>
<td>45</td>
<td>3.0</td>
<td>1500, 2000</td>
<td>2.465 (2.700)</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>2.5</td>
<td>2.5</td>
<td>1.680</td>
</tr>
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<td></td>
<td>50</td>
<td>3.0</td>
<td>1500, 2000</td>
<td>2.352 (2.420)</td>
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<tr>
<td></td>
<td>60</td>
<td>3.0</td>
<td>1500, 2000</td>
<td>2.000</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>5.0</td>
<td>2000, 2500, 3000</td>
<td>3.361</td>
</tr>
</tbody>
</table>

**NOTE:**
Variation in parenthesis relate to the mesh made from zinc-coated wire. Manufactured in rolls, 10 and 15 running meters long, compact rolls manufactured at the Cherepovets plant «Severstal-metiz». The ends of the rolls are wrapped in paper.
SINGLE-PLAITED STEEL MESH WITH PROTECTIVE COVERINGS
TU 14-178-287-2003

APPLICATION AREA:
Mesh is suitable for use in the mineral, construction, industrial, agricultural, mechanical and power engineering sectors, for applications including:
• excavation fixing
• materials bolting
• concrete reinforcement
• heat-shielding of industrial equipment and pipelines
• fencing manufacture

SPECIFICATIONS:
Diamond mesh №15 manufactured from non-heat-treated wire without coating of 1.2 mm diameter:
Mesh 2-R-15-1.2 TU 14-178-287-2003

Square mesh №20 manufactured from zinc-coated wire of 1.6 mm diameter:
Mesh 20-1.6-O TU 14-178-287-2003

Square mesh №45 manufactured from low-pressure polyethylene coated wire of 2.8 mm diameter:
Mesh 45-2.8-P TU 14-178-287-2003

Square mesh №45 manufactured from low-pressure polyethylene coated wire of 2.8 mm diameter in compact rolls:
Mesh 45-2.8-P-K TU 14-178-287-2003

MESH DESCRIPTION:
The meshes are manufactured from diamond (rhomb’s acute angle equals 60°) or square (angles equal 90°) apertures based on non-heat-treated wire without coating, zinc-coated with wire to TU 14-4-1563-89 or low-pressure polyethylene coated wire to TU 14-178-290-95, available in compact and normal rolls.

GAUGE AND GEOMETRICS OF THE MESHES PRODUCED AT THE CHEREPOVETS PLANT:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th>Estimated weight</th>
<th>1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without coating</td>
<td>coated with zinc</td>
<td>coated with polymer</td>
</tr>
<tr>
<td>5</td>
<td>1.4</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>15</td>
<td>1.2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>20</td>
<td>1.6</td>
<td>1.6</td>
<td>–</td>
</tr>
<tr>
<td>35</td>
<td>1.6</td>
<td>1.6</td>
<td>–</td>
</tr>
<tr>
<td>35</td>
<td>–</td>
<td>–</td>
<td>2.5</td>
</tr>
</tbody>
</table>
### Meshes and Mesh Constructions

#### "severstal-metiz" Group of Companies

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th>Estimated weight 1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without coating</td>
<td>coated with zinc</td>
</tr>
<tr>
<td>45</td>
<td>–</td>
<td>2.0</td>
</tr>
<tr>
<td>45</td>
<td>–</td>
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</tr>
<tr>
<td>50</td>
<td>–</td>
<td>2.5</td>
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<td>50</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>80</td>
<td>5.0</td>
<td>–</td>
</tr>
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</table>

**Note:**
Variation in parenthesis relates to the meshes made from zinc-coated wire. Variation in square brackets relates to the meshes made from polymer coated wire.

Other dimension-types are available on request. Compact rolls are manufactured at the Cherepovets plant "Severstal-metiz".

### Gauge and Geometrics of the Meshes Produced at the Orel Plant:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th>Diamond aperture</th>
<th>Square aperture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theoretical weight 1m², kg</td>
<td>without coating</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>1.4</td>
<td>5.283</td>
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<td>15</td>
<td>1.2</td>
<td>1.314</td>
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<td>1.66</td>
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</tr>
<tr>
<td>45</td>
<td>2.0</td>
<td>1.19</td>
<td>1.19</td>
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<td>48</td>
<td>2.8</td>
<td>1.324</td>
<td>–</td>
</tr>
<tr>
<td>50</td>
<td>1.8</td>
<td>0.88</td>
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<tr>
<td>50</td>
<td>2.0</td>
<td>1.08</td>
<td>1.08</td>
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<td>50</td>
<td>2.5</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>50</td>
<td>2.8</td>
<td>1.324</td>
<td>–</td>
</tr>
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</table>
WELDED REINFORCED MESH FOR STEEL CONCRETE CONSTRUCTIONS
TU 14-170-184-93

APPLICATION AREA:
Mesh is suitable for various construction reinforcements.

MESH DESCRIPTION:
The meshes are made from low-carbon wire of 3.0; 4.0; 5.0 mm diameter.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Aperture sizes on wire axial position, mm</th>
<th>Diameter of wire, mm</th>
<th>Theoretical weight 1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>longitudinal</td>
<td>diametrical</td>
</tr>
<tr>
<td>96</td>
<td>96</td>
<td>4.0</td>
</tr>
<tr>
<td>192</td>
<td>96</td>
<td>4.0</td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td>4.0</td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td>4.0</td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td>3.0</td>
</tr>
<tr>
<td>48</td>
<td>96</td>
<td>3.0</td>
</tr>
<tr>
<td>48</td>
<td>96</td>
<td>4.0</td>
</tr>
<tr>
<td>192</td>
<td>192</td>
<td>4.0</td>
</tr>
<tr>
<td>96</td>
<td>96</td>
<td>4.0</td>
</tr>
</tbody>
</table>

NOTE:
Mesh 96+192 is manufactured on basis of 96+(2+192)+96+192+96+(2+192)+96.
Meshes are supplied in rolls and carts.
Mesh maximal breadth, with overhung wire ends, is 1580 mm.
WIRE WELDED MESH
TU 14-4-1284-84

APPLICATION AREA:
Mesh is suitable for:
• poultry equipment making
• for cage making in fur farming
• fencing

MESH DESCRIPTION:
It is supplied in rolls.

Mesh without coating (bright):
• inner diameter is 800 mm
• external diameter is up to 2000 mm

Mesh with zinc-coating:
• inner diameter is 400 mm
• external diameter is 700 mm

Manufactured from low-carbon wire of 2.0 mm diameter with rectangular and square apertures of 16, 24, 32 and 48 mm.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Nominal aperture size on wire axial position, mm</th>
<th>Nominal wire diameter before zinc coating, mm</th>
<th>Mesh breadth, mm</th>
<th>Theoretical weight 1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>warp wire</td>
<td>weft wire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>2.0</td>
<td>992</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>2.0</td>
<td>1264</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>2.0</td>
<td>1200</td>
</tr>
<tr>
<td>16</td>
<td>48</td>
<td>2.0</td>
<td>992</td>
</tr>
<tr>
<td>24</td>
<td>24</td>
<td>2.0</td>
<td>912</td>
</tr>
<tr>
<td>24</td>
<td>48</td>
<td>2.0</td>
<td>984</td>
</tr>
<tr>
<td>24</td>
<td>48</td>
<td>2.0</td>
<td>1272</td>
</tr>
<tr>
<td>32</td>
<td>48</td>
<td>2.0</td>
<td>1120</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aperture sizes on wire axial position, mm</th>
<th>Diameter of wire, mm</th>
<th>Weight 1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>longitudinal</td>
<td>diametrical</td>
<td>longitudinal</td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td>4.0 Vr1</td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td>3.0 Vr1</td>
</tr>
<tr>
<td>96</td>
<td>96</td>
<td>4.0 Vr1</td>
</tr>
<tr>
<td>96</td>
<td>96</td>
<td>3.0 Vr1</td>
</tr>
<tr>
<td>(96+192)</td>
<td>96</td>
<td>4.0 Vr1</td>
</tr>
</tbody>
</table>

NOTE:
Additional breadth and specifications are available on request.
**WELDED MESH FOR MEDICAL BEDS**

**TU 14-178-316-97**

**APPLICATION AREA:**
Mesh is suitable for the manufacture of medical beds.

**SPECIFICATIONS:**
Mesh is made from wire of 5.0 mm diameter, in length 795 mm and breadth 1795 mm:

Mesh 5 \(\frac{100}{65}\) 1795 x 795 TU 14-178-316-97

**MESH DESCRIPTION:**
Meshes are manufactured from non-heat-treated zinc-coated wire to TU 14-4-1563-89 with cruciform joints produced by spot welding.

**GAUGE AND GEOMETRICS OF THE MESHES:**

<table>
<thead>
<tr>
<th>Diameter of rods, mm</th>
<th>Distance between rods, mm</th>
<th>Mesh breadth, B, mm</th>
<th>Mesh length, L, mm</th>
<th>Length of free ends rods, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>100</td>
<td>65</td>
<td>1795</td>
<td>795</td>
</tr>
<tr>
<td>5.0</td>
<td>100</td>
<td>65</td>
<td>1865</td>
<td>795</td>
</tr>
</tbody>
</table>

**NOTE:**
Additional dimensions are available on request.
WELDED REINFORCING MESH
TYPE 4
GOST 23279-85

APPLICATION AREA:
Mesh is suitable for steel concrete reinforcement.

SPECIFICATIONS:
Light mesh type 4 in carts. Breadth is 2350 mm. Length is 6000 mm. Longitudinal and diametrical rods from reinforcing wire class Vr1 of 5.00 mm diameter, step of longitudinal and diametrical rods is 100 mm and output of longitudinal and diametrical rods is 25 mm:

4S 5 Vr 1 - 100 235 x 6000
5 Vr 1 - 100

MESH DESCRIPTION:
Meshes are manufactured from low-carbon reinforcing wire GOST 6727-80, cruciform joints are produced by spot welding.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Diameter of rods, mm</th>
<th>Distance of longitudinal and diametrical rods, S and S₁, mm</th>
<th>Mesh breadth, B, mm</th>
<th>Mesh length, L, mm, not more than</th>
<th>Length of free ends rods, a, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>100; 150; 200</td>
<td>1500-2350</td>
<td>6000</td>
<td>25</td>
</tr>
<tr>
<td>5.0</td>
<td>100; 150; 200</td>
<td>1500-2350</td>
<td>6000</td>
<td>25</td>
</tr>
</tbody>
</table>

NOTE:
• size of longitudinal and diametrical rods must be equal to 25 mm
• size of longitudinal rods can be from 30 mm up to 200 mm, multiple of 5
• size of diametrical rods can be equal from 15 mm, 20 mm and 30 mm up to 25 mm and 100 mm, multiple of 25 mm
TRANSPORTER MESH
TU 14-178-304-96

APPLICATION AREA:
Mesh is suitable for:
• mobile furnace bases
• conveyor dryers within food, light industry and in mechanical engineering industries

SPECIFICATIONS:
Steel rod mesh with spiral (15.0 mm in height from wire of 1.2 mm diameter) and joint rod from wire (2.5 mm diameter and 3000 mm in breadth):

Mesh SHP 15.0 \( \frac{1.2}{2.5} \times 3000 \) TU 14-178-304-96

MESH DESCRIPTION:
Meshes are manufactured from low-carbon heat-treated wire GOST 3282-74 and TU 14-4-1563-89, from flat spirals alternately jointed through the steel rods. Mesh can be manufactured from alloyed and heat-resistant steels.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th>Height of spiral, mm</th>
<th>Mesh breadth, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>spiral</td>
<td>rod</td>
<td>external</td>
</tr>
<tr>
<td>15</td>
<td>1.2</td>
<td>2.0</td>
<td>15.0</td>
</tr>
<tr>
<td>16</td>
<td>1.4</td>
<td>2.5</td>
<td>16.0</td>
</tr>
</tbody>
</table>
DOUBLE-STRANDED HEXAGONAL MESH
TU 14-178-351-98

APPLICATION AREA:
The mesh is suitable for mesh construction and fencing manufacture.

SPECIFICATIONS:
Mesh with a aperture dimension of 80x100 mm made from a wire without coating of 2.2 mm diameter and a breadth of 3000 mm to TU 17-178-351-98:

Mesh 8x10-2.7-03-3000 TU 14-178-351-98

Mesh with a aperture dimension of 80x100 mm made from a zinc-coated wire (the 3d class) of 2.2 mm diameter and a breadth of 3000 mm to TU 17-178-351-98:

Mesh 8x10-2.7/3.7-0ZP-3000 TU 14-178-351-98

MESH DESCRIPTION:
Meshes are manufactured from heat-treated zinc-coated wire and polymer zinc-coated wire with polymer covering.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh type</th>
<th>Diameter of wire, mm</th>
<th>Aperture size, mm</th>
<th>Cloth breadth, B, mm</th>
<th>Weight 1 m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x10-2.0</td>
<td>2.00</td>
<td>2.40</td>
<td>80.0</td>
<td>100</td>
</tr>
<tr>
<td>8x10-2.0</td>
<td>2.00</td>
<td>2.50</td>
<td>80.0</td>
<td>100</td>
</tr>
<tr>
<td>8x10-2.2</td>
<td>2.20</td>
<td>2.70</td>
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<td>100</td>
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</tr>
<tr>
<td>8x10-2.4</td>
<td>2.40</td>
<td>3.00</td>
<td>80.0</td>
<td>100</td>
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</tbody>
</table>
### Meshes and Mesh Constructions

**Meshes AnD Mesh ConstruCtions**

#### « Severstal-Metiz » Group of Companies

<table>
<thead>
<tr>
<th>Mesh type</th>
<th>Diameter of wire, mm</th>
<th>Aperture size, ( S_1 ) mm</th>
<th>( S_2 ), mm</th>
<th>Cloth breadth, ( B ), mm</th>
<th>Weight 1 m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x10-2.5</td>
<td>2.50</td>
<td>3.00</td>
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<td>230-4000</td>
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<td>8x10-2.8</td>
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<td>3.90</td>
<td>80.0</td>
<td>100</td>
<td>230-4000</td>
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<td>8x10-3.0</td>
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<td>3.90</td>
<td>80.0</td>
<td>100</td>
<td>230-4000</td>
</tr>
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<td>8x10-2.7/3.7</td>
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<td>3.40</td>
<td>80.0</td>
<td>100</td>
<td>230-4000</td>
</tr>
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**Mesh Mechanical Properties, Zinc Coating Density:**

<table>
<thead>
<tr>
<th>Nominal diameter of the resulting wire, mm</th>
<th>Tolerance of diameter, mm</th>
<th>Tensile strength, N/mm²</th>
<th>Elongation, %, not less than</th>
<th>Zinc coated density, g/m², not less than</th>
<th>Spiral winding shank diameter (number of turns)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>±0.06</td>
<td>350-550</td>
<td>12</td>
<td>50</td>
<td>90</td>
</tr>
<tr>
<td>2.2</td>
<td>±0.06</td>
<td>350-550</td>
<td>12</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>2.4</td>
<td>±0.06</td>
<td>350-550</td>
<td>12</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>2.5</td>
<td>±0.06</td>
<td>350-550</td>
<td>12</td>
<td>60</td>
<td>100</td>
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<tr>
<td>2.7</td>
<td>±0.08</td>
<td>350-550</td>
<td>12</td>
<td>70</td>
<td>110</td>
</tr>
<tr>
<td>2.8</td>
<td>±0.08</td>
<td>350-550</td>
<td>12</td>
<td>70</td>
<td>110</td>
</tr>
<tr>
<td>3.0</td>
<td>±0.08</td>
<td>350-550</td>
<td>12</td>
<td>70</td>
<td>110</td>
</tr>
<tr>
<td>3.4</td>
<td>±0.10</td>
<td>350-550</td>
<td>12</td>
<td>70</td>
<td>110</td>
</tr>
<tr>
<td>3.9</td>
<td>±0.10</td>
<td>350-550</td>
<td>12</td>
<td>80</td>
<td>120</td>
</tr>
</tbody>
</table>

**Note:**
The mesh is manufactured in rolls with length within a range of 25-100 m. Non standard ranges are available on request. The weight of one mesh roll should not exceed 1000 kg.
STEEL STRANDED HEXAGONAL MESH FOR GABION CONSTRUCTIONS
GOST R 51285-99

APPLICATION AREA:
Mesh is suitable for manufacturing mesh constructions and fencing.

SPECIFICATIONS:
Mesh with the aperture of 60x80 mm made from zinc coated wire of 2.4 mm diameter in accordance with GOST R 51285-99:

Mesh 60-2.4-Z-GOST R 51285-99

MESH DESCRIPTION:
Meshes are made from heat-treated zinc-coated wire and polymer zinc-coated wire with polymer covering.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Aperture size</th>
<th>Mesh diameter, mm</th>
<th>Breadth of mesh, mm</th>
<th>Length of mesh, m</th>
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</thead>
<tbody>
<tr>
<td>nominal, mm</td>
<td>anomaly, %</td>
<td>nominal</td>
<td>anomaly</td>
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<tr>
<td>60 (+18) / (-4)</td>
<td>2.0</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/ - 60</td>
</tr>
<tr>
<td>60 (+18) / (-4)</td>
<td>2.2</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/ - 60</td>
</tr>
<tr>
<td>60 (+18) / (-4)</td>
<td>2.4</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/ - 60</td>
</tr>
<tr>
<td>60 (+16) / (-4)</td>
<td>2.7</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/ - 80</td>
</tr>
<tr>
<td>80 (+16) / (-4)</td>
<td>2.0</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/ - 80</td>
</tr>
</tbody>
</table>
### Meshes and Mesh Constructions

<table>
<thead>
<tr>
<th>Aperture size, nominal, mm</th>
<th>Aperture size, anomaly, %</th>
<th>Mesh diameter, mm</th>
<th>Breadth of mesh, mm, nominal</th>
<th>Breadth of mesh, mm, anomaly</th>
<th>Length of mesh, m, nominal</th>
<th>Length of mesh, m, anomaly</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1000; 2000; 3000; 4000</td>
<td>+/- 80</td>
<td>25; 50; 100</td>
<td>+1</td>
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<tr>
<td>80 (+16) / (-4)</td>
<td>2.4</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 80</td>
<td>25; 50; 100</td>
<td>+1</td>
<td></td>
</tr>
<tr>
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<td>2.5</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 80</td>
<td>25; 50; 100</td>
<td>+1</td>
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<tr>
<td>80 (+16) / (-4)</td>
<td>2.7</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 80</td>
<td>25; 50; 100</td>
<td>+1</td>
<td></td>
</tr>
<tr>
<td>80 (+16) / (-4)</td>
<td>2.8</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 80</td>
<td>25; 50; 100</td>
<td>+1</td>
<td></td>
</tr>
<tr>
<td>100 (+16) / (-4)</td>
<td>2.7</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 100</td>
<td>25; 50; 100</td>
<td>+1</td>
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<tr>
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<td>3.0</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 100</td>
<td>25; 50; 100</td>
<td>+1</td>
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</tr>
<tr>
<td>100 (+16) / (-4)</td>
<td>3.4</td>
<td>1000; 2000; 3000; 4000</td>
<td>+/- 100</td>
<td>25; 50; 100</td>
<td>+1</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**

Mesh is manufactured in one enrolled piece in weight no more than 100 kg. Rolls can be cut in carts.
MESH CONSTRUCTIONS
TU 14-178-350-98

APPLICATION AREA:
Mesh constructions are suitable for bank, slope ditch, ground reinforcement and other erosion prevention applications.

SPECIFICATIONS:
Box-like structures of the following dimensions – length 2 m, breadth 1 m, height 0.5 m manufactured from zinc-coated wire with the 3d class of coating of 2.7 mm diameter:

Structure K-2′1′0.5-2.7-03 TU 14-178-350-98

Box-like structures of the following dimensions – length 2 m, breadth 1 m, height 0.5 m manufactured from zinc-coated wire with the 3d class of coating of 2.7 mm diameter with a polymer coating:

Structure K-2′1′0.5-2.7/3.7-03П TU 14-178-350-98

Box-like structures with 2 internal partitions of the following dimensions – length 3 m, breadth 1 m, height 0.5 m made from zinc-coated wire with the 3rd class of coating of 2.7 mm diameter with a polymer coating:

Structure KD2-3′1′0.5-2.7/3.7-03П TU 14-178-350-98

Multicellular structures in dimensions of the following dimensions – length 5 m, breadth 2 m, height 4 m with 4 internal partitions manufactured from zinc-coated wire of 3.0 mm diameter:

Structure MD4-5′2′1-3.0-03 TU 14-178-350-98

Box-like structures with reinforcing panel and 1 internal partition of the following dimensions – length 2 m, breadth 1 m, height 1 m; reinforcing panel - 6 m made from zinc-coated wire of the 3rd class of coating of 3.0 mm diameter with a polymer coating:

Structure AD1-6′2′1-3.0/4.0-03П TU 14-178-350-98

MESH DESCRIPTION:
Meshes are made from double-stranded hexagonal mesh according to TU 14-178-351-98.

CONSTRUCTIONS OF HEXAGONAL MESH ARE CLASSIFIED BY APERTURE SHAPE AND APERTURE NUMBER:
• box-like structures (B)
• box-like structures with internal partitions (BP)
• multicellular structures with internal partitions (MP)
• box-like structures with internal partitions and reinforcing panel (RP)
### GAUGE AND GEOMETRICS OF BOX-LIKE STRUCTURES OF HEXAGONAL MESH:

<table>
<thead>
<tr>
<th>Dimensions, m</th>
<th>Weight of structure, kg, made from</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>zinc-coated wire</td>
<td>polymer-coated wire</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(mesh wire diameter) / load binder diameter, mm</td>
<td>(2.7)/2.2</td>
<td>(2.8)/2.2</td>
<td>(3.0)/2.4</td>
<td>(3.0)/2.5</td>
<td>(2.7)/3.7)/2.4</td>
<td>(2.7)/3.7)/2.5</td>
</tr>
<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>8.8</td>
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<td>0.5</td>
<td>9.6</td>
<td>10.2</td>
<td>11.0</td>
<td>12.1</td>
<td>11.6</td>
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<td>1</td>
<td>10.4</td>
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<td>13.5</td>
<td>14.3</td>
<td>16.0</td>
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</tr>
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</tr>
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<td>1</td>
<td>15.1</td>
<td>16.0</td>
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<td>1</td>
<td>1</td>
<td>18.5</td>
<td>19.6</td>
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<td>1</td>
<td>31.8</td>
<td>33.7</td>
<td>36.2</td>
<td>39.8</td>
<td>39.2</td>
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</table>

### GAUGE AND GEOMETRICS OF BOX-LIKE STRUCTURES WITH INTERNAL PARTITIONS:

<table>
<thead>
<tr>
<th>Dimensions, mm</th>
<th>Number of partitions, pcs.</th>
<th>Weight of structure, kg, made from</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>zinc-coated wire</td>
<td>polymer-coated wire</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(mesh wire diameter) / load binder diameter, mm</td>
<td>(2.7)/2.2</td>
<td>(2.8)/2.2</td>
<td>(3.0)/2.4</td>
<td>(3.0)/2.5</td>
<td>(2.7)/3.7)/2.4</td>
<td>(2.7)/3.7)/2.5</td>
</tr>
<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>0.5</td>
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<td>17.1</td>
</tr>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>20.4</td>
<td>21.6</td>
<td>23.2</td>
<td>25.5</td>
<td>23.6</td>
</tr>
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<td>0.5</td>
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<td>26.5</td>
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<td>1</td>
<td>3</td>
<td>35.3</td>
<td>37.4</td>
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<td>44.2</td>
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### GAUGE AND GEOMETRICS OF MULTICELLULAR STRUCTURES WITH INTERNAL PARTITIONS:

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<th>Dimensions, mm</th>
<th>Number of partitions, pcs.</th>
<th>Weight of structure, kg, made from</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>zinc-coated wire</td>
<td>polymer-coated wire</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(mesh wire diameter) / load binder diameter, mm</td>
<td>(2.7)/2.2</td>
<td>(2.8)/2.2</td>
<td>(3.0)/2.4</td>
<td>(3.0)/2.5</td>
<td>(2.7)/3.7)/2.4</td>
<td>(2.7)/3.7)/2.5</td>
</tr>
<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
<td></td>
<td></td>
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<td>4</td>
<td>78.9</td>
<td>83.6</td>
<td>89.4</td>
<td>98.3</td>
<td>89.5</td>
</tr>
</tbody>
</table>
GAUGE AND GEOMETRICS OF BOX-LIKE STRUCTURES WITH INTERNAL PARTITIONS AND REINFORCING PANEL:

| Dimensions, m |  |  |  | Weight of structure made from polymer-coated wire, kg |
|---------------|---------------|---------------|--------------------------------------------------|
| box-like structure | reinforcing panel | Number of partitions, pcs. | (mesh wire diameter) / load binder diameter, mm |
| length, L | breadth, B | height, H | length, L1 | breadth, B1 | | (3.0/4.0)/2.8 |
| 2 | 1 | 1 | 6 | 2 | 1 | 54.4 |

NOTE:
Tolerance on construction dimensions is ±5%; tolerance on height multicellular structure is ±10%.
Mesh constructions are packed in weight not exceeding 1500 kg.
CONSTRUCTIONS MADE OF STRANDED HEXAGONAL MESH FOR GABION CONSTRUCTIONS
GOST R 51132-2003

APPLICATION AREA:
Hexagonal mesh is suitable for bank, slope ditch and ground reinforcement and other erosion prevention applications.

SPECIFICATIONS:
Mesh gabion constructions are available in the following dimensions-length 1.5 m, breadth 1 m, height 0.5 m made from the zinc – polymer-coated mesh of 2.7 mm diameter with aperture № 100:

Mesh gabion construction K-1.5х1х0.5-C100-2.7-ZP GOST P 52132-2003

MESH DESCRIPTION:
Mesh gabion constructions are manufactured from double-stranded hexagonal mesh GOST R 51285-99.

CONSTRUCTIONS OF MESH GABION CONSTRUCTIONS ARE CLASSIFIED BY APERTURE SHAPE AND APERTURE NUMBER:
• box-like structures (B)
• box-like structures with internal partitions (BP)
• mattress (M)

GAUGE AND GEOMETRICS OF MESH GABION CONSTRUCTIONS:

<table>
<thead>
<tr>
<th>Dimensions, m</th>
<th>Weight of structure, kg, made from</th>
<th>zinc-coated wire</th>
<th>polymer-coated wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(mesh wire diameter) / load binder diameter, mm</td>
<td>(2.7)/2.2</td>
</tr>
<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>1</td>
<td>0.5</td>
<td>6.9</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>10.4</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>0.5</td>
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NOTE:
Mesh gabion constructions are manufactured from mesh №80 based on wire of 2.7 mm and 3.0 mm diameter.
Mesh gabion constructions must be divided by internal partitions in length. Mesh gabion constructions with reinforcing panel are divided in breadth by 1 m.
## GAUGE AND GEOMETRICS OF MESH GABION CONSTRUCTIONS WITH INTERNAL PARTITIONS:

<table>
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<th>Dimensions, m</th>
<th>Number of partitions, pcs.</th>
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<td>polymer-coated wire</td>
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<td>(mesh wire diameter) / load binder diameter, mm</td>
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<tr>
<td></td>
<td></td>
<td>(2.7)/2.2</td>
<td>(2.8)/2.2</td>
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<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
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## GAUGE AND GEOMETRICS OF MATTRESS MESH GABION CONSTRUCTIONS:

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<td></td>
<td>zinc-coated wire</td>
<td>polymer-coated wire</td>
</tr>
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<td></td>
<td></td>
<td>(mesh wire diameter) / load binder diameter, mm</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>(2.7)/2.2</td>
<td>(2.8)/2.2</td>
</tr>
<tr>
<td>length, L</td>
<td>breadth, B</td>
<td>height, H</td>
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**NOTE:**

Mattress mesh gabion constructions are manufactured from:

- mesh №60; wire of 2.2 and 2.4 diameter
- mesh №80; wire of 2.4, 2.7 and 3.0 diameter
WELDED MESH FOR REINFORCED CONCRETE CONSTRUCTIONS
TU 14-178-266-94

APPLICATION AREA:
Mesh is suitable for steel concrete reinforcement.

SPECIFICATIONS:
Mesh in carts with breadth of 2350 mm and longitudinal and diametrical rods from reinforcing wire class Vr1 of 5.00 mm diameter. The step of the longitudinal and diametrical rods is 100 mm:

5 Vr100 100 2350 TU 14-178-266-94

MESH DESCRIPTION:
Meshes are made from low-carbon reinforce wire class Vr1 GOST 6727-80. Cruciform joints of rods in crossover points are manufactured by contact spot welding.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
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<tr>
<th>Diameter of rods, d, mm</th>
<th>Distance of longitudinal and diametrical rods, S and S₁, mm</th>
<th>Mesh breadth, B, mm</th>
<th>Mesh length, L, mm</th>
<th>Length of free ends rods, a, mm</th>
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<td>Multiple of 25</td>
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<tr>
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<td>3000; 6000</td>
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<td>3000; 6000</td>
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<td>5.0</td>
<td>100</td>
<td>2000; 2350</td>
<td>3000; 6000</td>
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<td>5.0</td>
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<td>2000; 2350</td>
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<tr>
<td>5.0</td>
<td>200</td>
<td>2000; 2350</td>
<td>3000; 6000</td>
<td>Multiple of 25</td>
</tr>
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</table>
WELDED MESH FOR REINFORCED CONCRETE CONSTRUCTIONS
TU 14-1-5272-2006

APPLICATION AREA:
Mesh is suitable for steel concrete reinforcement.

SPECIFICATIONS:
Mesh in carts, breadth is 2350 mm, length is 6000 mm, with longitudinal and diametrical rods from reinforcing wire with tolerance A-500C of 6.00 mm diameter. Step of longitudinal and diametrical rods is 200 mm:

6 x A500C \( \frac{200}{200} \) 2350 x 6000 TU 14-1-5272-2006

MESH DESCRIPTION:
Meshes are made from cold-reinforcing steel of a periodic structure class A500C to TU 14-1-5248-94. Cruciform joints of rods in crossover points are made by contact spot welding.

GAUGE AND GEOMETRICS OF THE MESHES:

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<tr>
<th>Diameter of rods, ( d, \text{ mm} )</th>
<th>Distance of longitudinal and diametrical rods, ( S ) and ( S_1, \text{ mm} )</th>
<th>Mesh breadth, ( B, \text{ mm} )</th>
<th>Mesh length, ( L, \text{ mm} ), Length of free ends rods, ( a, \text{ mm} )</th>
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<td>6000 Divisible by 25</td>
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<td>2000; 2350</td>
<td>6000 Divisible by 25</td>
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<td>2000; 2350</td>
<td>6000 Divisible by 25</td>
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<tr>
<td>8.0</td>
<td>200</td>
<td>2000; 2350</td>
<td>6000 Divisible by 25</td>
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</table>
STEEL WOVEN MESH WITH SQUARE APERTURES
GOST 3826-82

APPLICATION AREA:
Mesh is suitable for:
- bolting of granular materials
- reinforcing of various coverings (including plaster)
- fencing
- heat-shielding of the industrial equipment
- air cleaning and other applications

MESH DESCRIPTION:
Meshes are divided by aperture size into two groups:
- meshes of the 1st group are used for bolting of granular materials that demand exact granulometric structure of stuff
- meshes of the 2nd group are used for bolting of granular materials, reinforcing, fencing, in heat-shielding of the industrial equipment, air cleaning that not demand high size exactness

Meshes are made from low-carbon heat-treated wire with zinc-coating to group «L» and without coating; made from high-carbon heat-treated wire of 12X18N9T and 12X18N10T steel.

Technical specifications are represented in TU 14-4-1563-89 «Low-carbon wire for mesh» and in TU 14-4-1571-89 «High-carbon wire for mesh».

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Mesh diameter, mm</th>
<th>Weight 1 m², kg</th>
<th>Number of wires per 1 dm</th>
<th>Mesh breadth, mm</th>
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<td>9</td>
<td>1</td>
<td>1.26</td>
<td>10</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>4.72</td>
<td>9.1</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>9</td>
<td>2.2</td>
<td>5.64</td>
<td>8.9</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>1.15</td>
<td>9.1</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>4.31</td>
<td>8.3</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>0.97</td>
<td>7.7</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>12</td>
<td>1.2</td>
<td>1.42</td>
<td>7.6</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>3.68</td>
<td>7.1</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>14</td>
<td>1</td>
<td>0.84</td>
<td>6.7</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>14</td>
<td>1.4</td>
<td>1.6</td>
<td>6.5</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>16</td>
<td>1.6</td>
<td>1.84</td>
<td>5.7</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>16</td>
<td>2.5</td>
<td>4.32</td>
<td>5.4</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>18</td>
<td>1.8</td>
<td>2.08</td>
<td>5.1</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>18</td>
<td>2.5</td>
<td>3.92</td>
<td>4.9</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>20</td>
<td>1.6</td>
<td>1.53</td>
<td>4.6</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td>2.39</td>
<td>4.5</td>
<td>1000, 1500, 2000</td>
</tr>
<tr>
<td>20</td>
<td>2.5</td>
<td>3.52</td>
<td>4.4</td>
<td>1000, 1500, 2000</td>
</tr>
</tbody>
</table>

**NOTE:**
Mesh is supplied in rolls by weight not more than 80 kg.
The woven mesh with aperture less than 1.0 mm must be packed. The rolls are wrapped up in paper then in polymer pellicle or packing material. Mesh in rolls is transported in packages. Weight of package in not more than 1 ton.
STEEL WOVEN MESH «SEMYANKA»
GOST 3339-74

APPLICATION AREA:
Mesh is suitable for bolting granular objects in agriculture, textile and other sectors.

MESH DESCRIPTION:
Mesh consists of the wire cloth of linen weave limited in weft by single wires and in base by locks from three wires.

«UniFence» produces two number of mesh: 14/2 and 18/2.

MESH TYPE DEPENDS ON PARAMETERS OF WIRE:
- T – heavy type. Welt wire has bigger diameter than base wire
- L – light type. Welt wire and base wire have identical diameter

MESH ARE CLASSIFIED BY COATING TYPE:
- without coating
- zinc-coated to group «L» and «C»

Mesh is made from low-carbon heat-treated wire according to the technical specifications to TU 14-4-1563-89 «Low-carbon wire for meshes».

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Mesh diameter, mm</th>
<th>Size of aperture, mm</th>
<th>Mesh wetted cross-section, %</th>
<th>Theoretical weight of 1 dm, kg</th>
<th>Number of base wire per 1 dm</th>
<th>Number of weft wire per 1 dm</th>
<th>Mesh breadth, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>base weft</td>
<td>base weft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14/2</td>
<td>0.7 1.4</td>
<td>14 1.6</td>
<td>46</td>
<td>4.66</td>
<td>6.0</td>
<td>33.0</td>
<td>1000</td>
</tr>
<tr>
<td>18/2</td>
<td>0.8 1.8</td>
<td>18 2.2</td>
<td>49</td>
<td>5.72</td>
<td>5.0</td>
<td>25.0</td>
<td>1000</td>
</tr>
</tbody>
</table>

NOTE:
Mesh is supplied in rolls by weight not more than 80 kg, transported in packages.
STEEL WOVEN FILTRATED MESH
GOST 3187-76, TU 14-178-311-98

APPLICATION AREA:
Mesh is suitable for filtration, dehydration and drying of different solutions, mixtures and suspensions.

MESH DESCRIPTION:
Mesh consists of the wire cloth with no apertur turned out from weft and base wire weaves.

«UniFence» produces meshes P24, P52 and P72. They are of linen weave when base wires located on definite distance from each other interweave with weft wires. There are no apertures in the lighter densities.

Filtrated high density mesh is produced to TU 14-178-311-98.

Mesh is made from low-carbon heat-treated wire to TU 14-4-1563-89 «Low-carbon wire for meshes», from high-carbon wire of 12Х18N9Т, 12Х18Н10Т steel grade to TU 14-4-1571-89 «High-carbon wire for meshes».

Quality of mesh conforms to international standard TGL 27876-80.

GAUGE AND GEOMETRICS OF MESH TO GOST 3187-76:

<table>
<thead>
<tr>
<th>Reference designation of mesh</th>
<th>Mesh diameter, mm</th>
<th>Number of wires per 1 dm</th>
<th>Mesh breadth, mm</th>
<th>Weight 1 m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>base</td>
<td>weft</td>
<td>base</td>
<td>weft</td>
<td>base</td>
</tr>
<tr>
<td>P24</td>
<td>0.7</td>
<td>0.4</td>
<td>24</td>
<td>270</td>
</tr>
<tr>
<td>P28</td>
<td>0.6</td>
<td>0.4</td>
<td>28</td>
<td>270</td>
</tr>
<tr>
<td>P32</td>
<td>0.6</td>
<td>0.4</td>
<td>32</td>
<td>270</td>
</tr>
<tr>
<td>P36</td>
<td>0.5</td>
<td>0.4</td>
<td>36</td>
<td>270</td>
</tr>
<tr>
<td>P48</td>
<td>0.45</td>
<td>0.3</td>
<td>48</td>
<td>360</td>
</tr>
<tr>
<td>P52</td>
<td>0.45</td>
<td>0.28</td>
<td>52</td>
<td>400</td>
</tr>
<tr>
<td>P56</td>
<td>0.4</td>
<td>0.28</td>
<td>40</td>
<td>400</td>
</tr>
<tr>
<td>P72</td>
<td>0.3</td>
<td>0.2</td>
<td>72</td>
<td>550</td>
</tr>
</tbody>
</table>

GAUGE AND GEOMETRICS OF MESHES TO TU 14-178-311-98:

<table>
<thead>
<tr>
<th>Reference designation of mesh</th>
<th>Mesh diameter, mm</th>
<th>Number of meshes per 1 dm</th>
<th>Mesh breadth, mm</th>
<th>Weight 1 m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>base</td>
<td>weft</td>
<td>base</td>
<td>weft</td>
<td>base</td>
</tr>
<tr>
<td>12/64</td>
<td>0.6</td>
<td>0.4</td>
<td>472</td>
<td>2520</td>
</tr>
<tr>
<td>14/88</td>
<td>0.5</td>
<td>0.35</td>
<td>551</td>
<td>3465</td>
</tr>
<tr>
<td>18/100</td>
<td>0.4</td>
<td>0.3</td>
<td>709</td>
<td>3937</td>
</tr>
<tr>
<td>20/110</td>
<td>0.4</td>
<td>0.3</td>
<td>787</td>
<td>4330</td>
</tr>
<tr>
<td>24/110</td>
<td>0.35</td>
<td>0.25</td>
<td>945</td>
<td>4340</td>
</tr>
<tr>
<td>30/150</td>
<td>0.22</td>
<td>0.18</td>
<td>1181</td>
<td>5906</td>
</tr>
<tr>
<td>110/24</td>
<td>0.25</td>
<td>0.35</td>
<td>4340</td>
<td>945</td>
</tr>
</tbody>
</table>

NOTE:
Mesh is supplied in rolls, wrapped up in paper, polymer pellicle or other packing material and transported in packages.
STEEL WOVEN MESH WITH SQUARE APERTURES
TU 14-178-215-2001

APPLICATION AREA:
Mesh is suitable for:
• bolting of granular materials
• reinforcing of various coverings (including plaster)
• fencing
• heat-shielding of the industrial equipment
• air cleaning

MESH DESCRIPTION:
Mesh is made from wire without coating, zinc-coated and high-carbon wire. The TU specification offers a wider nomenclature (dimension type) compared to GOST 3826-82. Meshes are produced in breadth of 1000, 1300, 1500, 1800, 2000 mm, and supplied in rolls in weight not more than 80 kg.

GAUGE AND GEOMETRICS OF MESSES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Aperture size, mm</th>
<th>Mesh diameter, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>055</td>
<td>0.55</td>
<td>0.25; 0.30</td>
</tr>
<tr>
<td>056</td>
<td>0.56</td>
<td>0.30</td>
</tr>
<tr>
<td>063</td>
<td>0.63</td>
<td>0.28</td>
</tr>
<tr>
<td>07</td>
<td>0.70</td>
<td>0.30; 0.35</td>
</tr>
<tr>
<td>073</td>
<td>0.73</td>
<td>0.40; 0.50</td>
</tr>
<tr>
<td>078</td>
<td>0.78</td>
<td>0.45</td>
</tr>
<tr>
<td>08</td>
<td>0.80</td>
<td>0.30; 0.50; 0.60</td>
</tr>
<tr>
<td>086</td>
<td>0.86</td>
<td>0.30</td>
</tr>
<tr>
<td>087</td>
<td>0.87</td>
<td>0.40</td>
</tr>
<tr>
<td>09</td>
<td>0.90</td>
<td>0.25; 0.32; 0.40; 0.50</td>
</tr>
<tr>
<td>1.0</td>
<td>1.00</td>
<td>0.30; 0.36; 0.50; 0.55; 0.60</td>
</tr>
<tr>
<td>1.2</td>
<td>1.20</td>
<td>0.50; 0.55; 0.70</td>
</tr>
<tr>
<td>1.25</td>
<td>1.25</td>
<td>0.40; 0.50</td>
</tr>
<tr>
<td>1.3</td>
<td>1.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1.4</td>
<td>1.40</td>
<td>0.40; 0.60; 0.70; 0.80; 0.96</td>
</tr>
<tr>
<td>1.5</td>
<td>1.50</td>
<td>0.58</td>
</tr>
<tr>
<td>1.56</td>
<td>1.56</td>
<td>0.45</td>
</tr>
<tr>
<td>1.58</td>
<td>1.58</td>
<td>0.40</td>
</tr>
<tr>
<td>1.6</td>
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<td>0.50; 0.60; 0.80; 0.90; 1.00</td>
</tr>
<tr>
<td>1.9</td>
<td>1.90</td>
<td>0.65</td>
</tr>
<tr>
<td>2.0</td>
<td>2.00</td>
<td>0.45; 0.70; 0.80; 0.90</td>
</tr>
<tr>
<td>Mesh №</td>
<td>Aperture size, mm</td>
<td>Mesh diameter, mm</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>2.2</td>
<td>2.20</td>
<td>0.56; 1.20</td>
</tr>
<tr>
<td>2.5</td>
<td>2.50</td>
<td>1.20</td>
</tr>
<tr>
<td>2.7</td>
<td>2.70</td>
<td>1.20</td>
</tr>
<tr>
<td>2.8</td>
<td>2.80</td>
<td>0.80; 1.00</td>
</tr>
<tr>
<td>3.0</td>
<td>3.00</td>
<td>0.60; 0.80; 0.90; 1.00; 1.20; 1.40</td>
</tr>
<tr>
<td>3.55</td>
<td>3.55</td>
<td>0.90</td>
</tr>
<tr>
<td>4.0</td>
<td>4.00</td>
<td>0.90; 1.10</td>
</tr>
<tr>
<td>4.1</td>
<td>4.10</td>
<td>1.10</td>
</tr>
<tr>
<td>4.5</td>
<td>4.50</td>
<td>0.80; 1.20</td>
</tr>
<tr>
<td>5.0</td>
<td>5.00</td>
<td>0.80; 0.90; 1.00; 1.80; 2.20</td>
</tr>
<tr>
<td>5.1</td>
<td>5.10</td>
<td>1.10</td>
</tr>
<tr>
<td>7.0</td>
<td>7.00</td>
<td>0.56</td>
</tr>
<tr>
<td>8</td>
<td>8.00</td>
<td>0.60; 1.50; 2.00</td>
</tr>
<tr>
<td>9.0</td>
<td>9.00</td>
<td>1.00</td>
</tr>
<tr>
<td>10.0</td>
<td>10.00</td>
<td>0.80; 0.90; 1.20; 1.60</td>
</tr>
<tr>
<td>14.0</td>
<td>14.00</td>
<td>1.20</td>
</tr>
<tr>
<td>16.0</td>
<td>16.00</td>
<td>2.00</td>
</tr>
<tr>
<td>18.0</td>
<td>18.00</td>
<td>1.20; 1.85; 2.00</td>
</tr>
<tr>
<td>20.0</td>
<td>20.00</td>
<td>1.00; 2.20</td>
</tr>
</tbody>
</table>
WOVEN TWILL MESH  
TU 14-4-1561-89

APPLICATION AREA:
Mesh is suitable for the reinforcement of asbestos technical products and diesel, motor and turbine manufacturing. Steel mesh ensures the necessary deflection rate to fix the medium material strata in a defined position and to prevent their deviation. Furthermore, this product is also used in the chemical industry for filtration of plastic melting (example, polyethylene and other polymers).

MESH DESCRIPTION:
Mesh is made from low-carbon heat-treated and high-carbon wire from 12X18N9T and 12X18N10T steel grades. Technical specifications are based on TU 14-4-1563-89 «Low-carbon wire for mesh» and TU 14-4-1571-89 «High-carbon wire».

GEOMETRICAL DIMENSIONS OF MESH:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Mesh diameter, mm</th>
<th>Number of wires per 1 dm</th>
<th>Wetted section, %</th>
<th>Mesh breadth, mm</th>
<th>Weight 1m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>base</td>
<td>weft</td>
<td>base</td>
<td>weft</td>
<td></td>
</tr>
<tr>
<td>056</td>
<td>0.35</td>
<td>0.4</td>
<td>110</td>
<td>104</td>
<td>36</td>
</tr>
<tr>
<td>050</td>
<td>0.4</td>
<td>0.35</td>
<td>118</td>
<td>111</td>
<td>32.6</td>
</tr>
<tr>
<td>035</td>
<td>0.35</td>
<td>0.3</td>
<td>154</td>
<td>143</td>
<td>31.3</td>
</tr>
<tr>
<td>0315</td>
<td>0.25</td>
<td>0.28</td>
<td>177</td>
<td>168</td>
<td>29.8</td>
</tr>
</tbody>
</table>

NOTE:
Mesh is supplied in rolls consisting of one base length piece, weight not more than 80 kg. Rolls are wrapped in packing material or polymer pellicle.

Mesh in rolls can be transported in packages.
STEEL WOVEN MESH WITH RECTANGULAR APERTURES OF LINEN WEAVE
TU 14-178-213-91

APPLICATION AREA:
Mesh is suitable for the reinforcement of mineral wool products, used for heat isolation.

MESH DESCRIPTION:
Mesh is made from low-carbon wire of 0.32-1.2 mm diameter with 0.9-1.4 mm, 8.0-10 mm aperture size. Breadth of wire cloth is 1000-1500 mm, supplied in rolls; weight is not more than 80kg.

CORRUGATED MESH FOR SIEVE, SCOURING AND MILL SYSTEMS
TU 14-178-343-98

MESH DESCRIPTION:
Mesh is made from preliminarily corrugated wire of a circular section with two-wire strands and pressed weft wire.

GEOMETRICAL DIMENSIONS OF MESH:

<table>
<thead>
<tr>
<th>Diameter of base wire, mm</th>
<th>Diameter of weft wire, mm</th>
<th>Number of weft wires per 1 dm</th>
<th>Distance between wires in base strand, mm</th>
<th>Distance between base strands, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1.5</td>
<td>39</td>
<td>7 +/- 0.8</td>
<td>15 +/- 1.0</td>
</tr>
<tr>
<td>1.0</td>
<td>1.5</td>
<td>39</td>
<td>8 +/- 0.8</td>
<td>16 +/- 1.0</td>
</tr>
</tbody>
</table>

NOTE:
Wire cloth breadth is 5-10 mm.
Mesh is made from heat-treated carbonaceous wire of normal conformance to TU 14-4-1566-89.
Mesh is supplied in rolls or carts. Weight of a roll is not more than 50 kg.
CORRUGATED MESH FOR SIEVE, SCOURING AND MILL SYSTEMS
TU 14-178-319-97

APPLICATION AREA:
Mesh is suitable for seed dusting, fruit coat-, germ- and drift peeling in flour-grinding industry.

MESH DESCRIPTION:
Mesh consists the cross interweaving of base wires of 1.7 diameter with wires of special corrugated weft of 2.0 diameter with 1.3-1.6 mm aperture size.

Mesh is made from low-carbon heat-treated wire according to TU 14-4-1563-89.

Mesh is supplied in rolls, breadth is 1310 mm and weight is 800 mm or in carts, size 1310x700. Mesh is run through the rollers according to DUO 570x1400.

MESH THICKNESS:
- prior to clamping – 3.8-4.1 mm
- after clamping – 2.9 mm
MESH FOR SIEVE APPLICATIONS
GOST 3306-88
TU 14-178-393-2000
TU 14-178-457-2004

APPLICATION AREA:
Mesh is suitable for apparatus used for sieving of black coal, coke, ore of ferrous and nonferrous metals, agglomerate, pellets, rock etc.

SPECIFICATIONS:
Corrugated mesh with 10 mm aperture size made from carbonaceous wire of 3.0 mm diameter:

Mesh R 10-3.0 GOST 3306-88

Complex-corrugated mesh with 40 mm aperture size made from carbonaceous wire of 5.0 mm diameter:

Mesh CR 40-5.0 GOST 3306-88

Corrugated mesh with rectangular apertures and distance between wires 5.0 mm and 20.0 mm made from carbonaceous wire of 45 steel grade and 3.0 mm diameter:


MESH DESCRIPTION:
Basic dimensions:
• aperture size in light-mesh №, mm
• diameter of mesh, mm
• size of cart, mm
• steel grade

MESH IS CLASSIFIED BY CONSTRUCTION:
• corrugated. Wire has curve in cross point
• complex-corrugated. Wire has additional curves on the apertur sides

MESH IS MANUFACTURED:
• with square apertures (GOST 3306-88)
• with rectangular apertures (TU 14-178393-2000)

DIMENSIONS OF RAW MATERIAL:
Mesh is made from non-heat-treated carbonaceous wire of 45-55 steel as well as low-carbon wire to TU 14-4-1563-89.

MESH IS PRODUCED IN CARTS:
• breadth is 1000-2000 mm
• length is 6000 mm

Carts are formed in packages. Weight of package is not more than 1500 kg.
GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Aperture size (mesh №)</th>
<th>Diameter of wire, mm</th>
<th>Weight 1 m², kg</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1.6</td>
<td>6.000</td>
<td>Corrugated</td>
</tr>
<tr>
<td>5</td>
<td>2.0</td>
<td>7.321</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2.2</td>
<td>7.700</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
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<td>-</td>
</tr>
<tr>
<td>10</td>
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<td>12.245</td>
<td>-</td>
</tr>
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<td>13.600</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>4.0</td>
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</tr>
<tr>
<td>13</td>
<td>3.0</td>
<td>7.400</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>3.0</td>
<td>6.600</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>3.0</td>
<td>6.270</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>3.6</td>
<td>9.100</td>
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<td>15.500</td>
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</tr>
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<td>14.200</td>
<td>-</td>
</tr>
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<td>12.698</td>
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<td>11.041</td>
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<td>25</td>
<td>5.0</td>
<td>10.800</td>
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</tr>
<tr>
<td>32</td>
<td>5.0</td>
<td>8.900</td>
<td>Complex-corrugated</td>
</tr>
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<td>35</td>
<td>5.0</td>
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</tr>
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<td>7.153</td>
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<td>5.690</td>
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</tr>
<tr>
<td>60</td>
<td>5.0</td>
<td>4.990</td>
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<tr>
<td>18</td>
<td>3.6</td>
<td>9.448</td>
<td>Stamped</td>
</tr>
</tbody>
</table>
STEEL WOVEN MESH WITH SQUARE APERTURES FOR BUILDING
TU 14-178-461-2004

APPLICATION AREA:
Mesh is suitable for reinforcement of plaster and heat isolation.

MESH DESCRIPTION:
Mesh is made from low-carbon black or zinc-coated wire of different diameters for weight reduction and ease of manufacture.

Mesh is produced with 10 mm, 12 mm, 14 mm size apertures of 0.8-1.0 mm diameter, mesh breadth is 1000-1500 mm. Mesh is supplied in rolls, weight is not more than 80 kg.

CORRUGATED MESH FOR GRANULATE POTASH FERTILIZER PRODUCTION
TU 14-4-1480-88

APPLICATION AREA:
Mesh is suitable for fabricating of special sieves used for granulate potash fertilizer.

MESH DESCRIPTION:
Mesh is made from high-carbon wire or high-alloyed cold-drawn wire (150 kilogauss/mm² or 160 kilogauss/mm²).

GAUGE AND GEOMETRICS OF THE MESSES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Nominal size of aperture side in light, mm</th>
<th>Mesh diameter, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>between base wires</td>
<td>between weft wires</td>
</tr>
<tr>
<td>5</td>
<td>5.0</td>
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</tr>
<tr>
<td>4</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>1.6/5.0</td>
<td>1.6</td>
<td>5.0</td>
</tr>
<tr>
<td>1.25/3.55</td>
<td>1.25</td>
<td>3.55</td>
</tr>
</tbody>
</table>

NOTE:
Mesh is supplied in rolls, length is 2200 mm.
STEEL WELDED MESH WITHOUT COATING AND ZINC-COATED IN CLOTH
TU 127500-245-00187211-96

APPLICATION AREA:
Mesh is suitable for fencing.

MESH DESCRIPTION:
It is supplied in rolls. Maximal length of roll is not more then 150 m.
Mesh is made from low-carbon wire of 2.0 mm diameter with rectangular and square apertures.

GAUGE AND GEOMETRICS OF THE MESHES:

<table>
<thead>
<tr>
<th>Mesh №</th>
<th>Diameter of wire, mm</th>
<th>Nominal size of apertures on wire axial position, mm</th>
<th>Mesh breadth, mm</th>
<th>Theoretical weight 1 m², kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>diametrical</td>
<td>longitudinal</td>
<td></td>
</tr>
<tr>
<td>48x48</td>
<td>2.0</td>
<td>48</td>
<td>48</td>
<td>1488</td>
</tr>
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<td>48x48</td>
<td>2.5</td>
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<tr>
<td>48x72</td>
<td>3.0</td>
<td>72</td>
<td>48</td>
<td>1488</td>
</tr>
</tbody>
</table>

NOTE:
Meshes manufactures of other dimension types are available on request.