**SHEAR TEST FIXTURES**

to test steel welded wires according to ASTM A185, ASTM A497, ASTM A974, ASTM C1452, DIN 488-5, DIN EN ISO 15630-2, DIN EN 10223-8, GOST 10922-12 (Fig.4).

Additional lower grip is required for the test (see page 8). The lower grip is not included in the scope of supply and must be ordered separately.

<table>
<thead>
<tr>
<th>Item no.:</th>
<th>THS290-1-5-16</th>
</tr>
</thead>
</table>

- **Sample size:** Ø 5-16 mm
  - Further sample sizes on request.
- **Adapter:** Flange adapter or threaded rod.
- **Body:** Steel, nickel-plated
- **Temperature range:** 0 ... +70°C.
  - Further temperature ranges on request.
- **Weight:** 12.9 kg per grip without adapter
- **Scope of supply:** 1 fixture

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**with threaded rod**

**with flange adapter**
Item no.: THS290-30

According to DIN EN ISO 15630-2 - Steel for the reinforcement and prestressing of concrete - Test methods – Part 2: Welded fabric

Sample size: Ø 4-16 mm
Further sample sizes on request.

Max. load: 50 kN

Coupling: Af318. Further couplings on request.

Body: Steel, nickel-plated

Temperature range: 0 … +70°C.
Further temperature ranges on request.

Scope of supply: 1 fixture
**Item no.:** THS290-20

According to **ASTM A185** - Standard specification for steel welded wire reinforcement, plain, for concrete.

**ASTM A497** - Standard specification for steel welded wire reinforcement, deformed, for concrete.

**ASTM A974** - Welded wire fabric gabions and gabion mattresses (metallic-coated or polyvinyl chloride (PVC) coated).

<table>
<thead>
<tr>
<th>Sample size:</th>
<th>Ø 3-8 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Further sample sizes on request.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. load:</th>
<th>50 kN</th>
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<table>
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<tr>
<th>Coupling:</th>
<th>Af318. Further couplings on request.</th>
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</table>

<table>
<thead>
<tr>
<th>Body:</th>
<th>Steel, nickel-plated</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Temperature range:</th>
<th>0 … +70°C.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Further temperature ranges on request.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scope of supply:</th>
<th>1 fixture</th>
</tr>
</thead>
</table>

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**Dimensions Diagram:**

- Sample size: Ø 3-8 mm (Further sample sizes on request)
- Max. load: 50 kN
- Coupling: Af318 (Further couplings on request)
- Body: Steel, nickel-plated
- Temperature range: 0 … +70°C (Further temperature ranges on request)
- Scope of supply: 1 fixture
<table>
<thead>
<tr>
<th>Item no.:</th>
<th>THS290-21</th>
</tr>
</thead>
</table>


**Sample size:** Ø 4-12 mm  
Further sample sizes on request.

**Max. load:** 50 kN

**Coupling:** Af318. Further couplings on request.

**Body:** Steel

**Temperature range:** 0 ... +70°C.  
Further temperature ranges on request.

**Scope of supply:** 1 fixture
Item no.: THS290-10

According to **ASTM C1452** - Standard specification for reinforced autoclaved aerated concrete elements.


Sample size: Ø 3-16 mm
Further sample sizes on request.

Max. load: 100 kN (with Af40) or 250 kN (with Af60)

Coupling: Af40 or Af60.
Further couplings on request.

Body: Steel, nickel-plated

Temperature range: 0 … +70°C.
Further temperature ranges on request.

Scope of supply: 1 fixture
<table>
<thead>
<tr>
<th>Item no.:</th>
<th>THS290-40</th>
</tr>
</thead>
</table>

According to **DIN EN 10223-8** - Steel wire and wire products for fencing and netting - Part 8: Welded mesh gabion products.


- **Sample size:** Ø 3 mm
- **Max. load:** 20 kN
- **Coupling:** Af159. Further couplings on request.
- **Body:** Steel, nickel-plated
- **Temperature range:** 0 ... +70°C. Further temperature ranges on request.
- **Scope of supply:** 1 fixture

![Diagram](attachment:image.png)
Item no.: THS290-41

According to GOST 10922-12 (Fig.4) - Welded reinforcing products and inserts, welded, lap and mechanical joints for reinforced concrete structures. General specifications.

Sample size: Ø 5-30 mm
Max. load: 250 kN
Coupling: Af60.
Further couplings on request.
Body: Steel, nickel-plated
Temperature range: 0 ... +70°C.
Further temperature ranges on request.
Scope of supply: 1 fixture
Videos

Grip assembly
THS290-1-5-16 to DIN 488, ASTM C1452

Watch video

Sample testing
THS290-1-5-16 to DIN 488, ASTM C1452

Watch video

Recommendations for lower grip
For 50 kN max. load we recommend TH204 and TH243-50 wedge grips.
Grips for higher loads on request.

TH204
Datasheet

TH243-50
Datasheet
THS162-106 simple shear jig

https://youtu.be/frSl6AkCV6A

https://youtu.be/nzknaDoeSAk