SERIES OF TENSILE STRENGTH TEST FIXTURES

to test flatwise tensile strength and tensile adhesion properties according to ASTM C297, ASTM D3354, ASTM D1623B, EN 1607, EN 2243-4, DIN 53292.

Two types of fixtures are available
1. TH113 type for samples up to 100x100 mm
2. TH113-327 type for samples from 100x100 mm.

TH113 Type
Single-axis and double-axis versions for samples up to 100x100 mm

The fixture consists of one pair of loading block carriers and one pair of insert loading blocks. Carriers are available as a single-axis version (TH113-GT-Km10 and TH113-GT-M16) and a double-axis version (TH113-2Axe-GT). Both carriers are suitable for all insert loading blocks. A test specimen is bonded to the face of insert blocks that are then pulled apart.

Standard couplings: Af159, Af20 or Af318. Further couplings on request
Max. load: 20 kN for TH113-GT-Km10 carrier
50 kN for TH113-GT-M16 carrier
10 kN for TH113-2Axe-GT carrier
Carrier and inserts: Steel, nickel-plated
Temperature range: -70 ... +350°C
Scope of delivery: 1 pair of carriers / 1 pair of inserts. Carrier and insert loading blocks should be ordered separately.

<table>
<thead>
<tr>
<th>Item no.</th>
<th>ASTM C297</th>
<th>ASTM D3354</th>
<th>ASTM D1623B</th>
<th>EN 1607</th>
<th>EN 2243-4</th>
<th>DIN 53292</th>
<th>Insert block size:</th>
<th>Weight each:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carriers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH113-GT-Km10 / TH113-GT-M16</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.78 kg</td>
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</tr>
<tr>
<td>TH113-2Axe-GT</td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td>1.30 kg</td>
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<tr>
<td>Insert blocks</td>
<td>TH113-E50-25.4x25.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25.4x25.4 mm</td>
<td>0.58 kg</td>
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<tr>
<td></td>
<td>TH113-E50-50x50</td>
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<td>50x50 mm</td>
<td>0.71 kg</td>
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<td>TH113-E50-50.8x50.8</td>
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<td>50.8x50.8 mm</td>
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<td>TH113-E50-76.2x76.2</td>
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<td>76.2x76.2 mm</td>
<td>0.98 kg</td>
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<td>TH113-E50-100x100</td>
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<td></td>
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<td>100x100 mm</td>
<td>1.31 kg</td>
</tr>
</tbody>
</table>

Carriers

TH113-GT-Km10 / TH113-GT-M16

Insert blocks

TH113-E50-50x50

TH113-E50-100x100
Examples for TH113

TH113-GT + TH113-E50-50x50 EN2243-4

TH113-2Axo-CT + TH113-E50-50x50 EN1607
TH113-327 Type
Double-axis version - for larger samples from 100x100 mm

A test specimen is bonded between two rigid plates that are then pulled apart.
Possible plate sizes include e.g. 100x100, 150x150, 200x200, 300x300 mm.

The fixture consists of:
1. 1 pair of cardan (universal) joint adapters (item no. THS327, see THS327 Datasheet),
2. 1 pair of connection adapters to connect the cardan joint adapter and plate,
   (item no. THS637 or THS646 depending on the plate size, see THS637 Overview and THS646 Datasheet),
3. 1 pair of rigid plates (item no. TH36, see TH36 Datasheet).

Standard coupling: Af159. Further couplings on request
Cardan joint and connection adapters: Steel, nickel-plated
Plates: Aluminium
Temperature range: -70 ... +180°C
Scope of delivery: Plates, cardan joint adapter and connection adapter have to be ordered separately.

<table>
<thead>
<tr>
<th>ASTM C297</th>
<th>ASTM D3354</th>
<th>ASTM D1623B</th>
<th>EN 1607</th>
<th>EN 2243-4</th>
<th>DIN 53292</th>
<th>Plate size:</th>
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<tbody>
<tr>
<td>x</td>
<td>x</td>
<td></td>
<td>100x100 mm</td>
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<tr>
<td>x</td>
<td></td>
<td></td>
<td>150x150 mm</td>
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<td>200x200 mm</td>
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<td>x</td>
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<td>300x300 mm</td>
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</tbody>
</table>

Example:

**TH113-327-P100x100-Af159**
Fixture for tests according to ASTM D3354 and EN 1607
for samples 100x100 mm, coupling Af159 mm, weight 1.15 kg