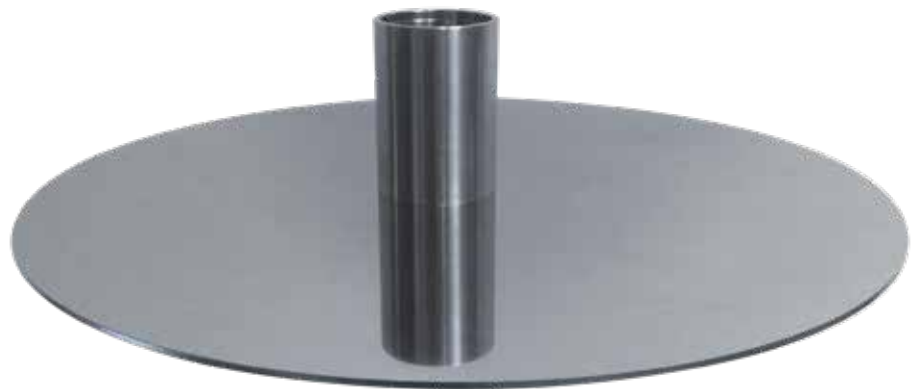


Grout Spread Test Apparatus

Instruction manual



Viscosity

The grout spread test measures the fluidity of thixotropic grouts. The fluidity is measured by the diameter of the circle of grout spread on a smooth plate after a fixed period.

Declaration of Conformity

The manufacturer

MUDTEST Sp. z o.o.
Chełmońskiego 77, 32-500 Chrzanów, Poland

hereby declares that the following product:

Designation Grout Spread Test Apparatus

Drawing number 5300.00.00000

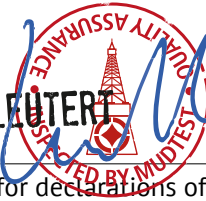
conforms to the provisions of the policies identified below, including any amendments thereto in effect at the time of the declaration:

EN 445: Grout for prestressing tendons - Test methods

Adendorf, 06.12.2022

Place and date

SEBASTIAN LEUTERT



Management representative for declarations of conformity

Description

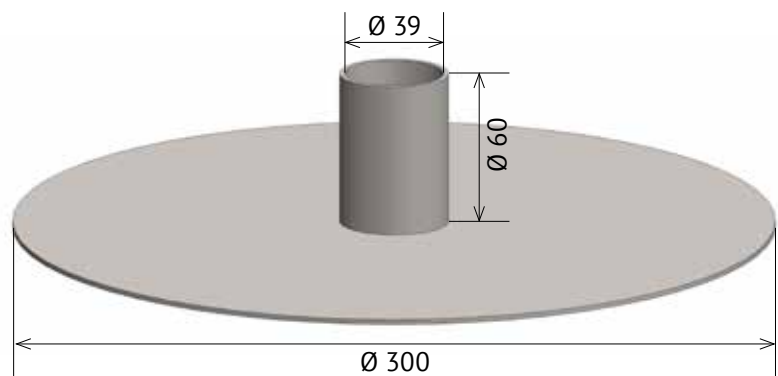
The Grout Spread Test Apparatus is used to measure the fluidity of thixotropic grouts. The Grout Spread Test Apparatus consist of a polished steel plate with a diameter of 300 mm and a stainless-steel mould with an internal diameter of 39 mm and a height of 60 mm.

The grout spread test is performed by putting the mould on the plate and then pour the grout slowly into the mould until the level of the grout has reached the upper brim. The mould is steadily lifted from the plate and kept above the spread for a maximum of 30 s before it is taken away. The grout spread is measured in two perpendicular directions at 30 s after the start of lifting the mould.

Mudtest also offers all other auxiliary tools to perform the grout spread test such as a stopwatch showing time to 0,1 s., a thermometer and a ruler with a length of 300 mm and a 1 mm graduation.

According to EN 445 the fluidity can also be determined using the cone method. Only one of two test methods is to be performed as appropriate for the type or characteristics of the grout.

Technical Specifications



Operation

The spread test is carried out on the horizontal plate.

1. Ensure that the surfaces of the mould and plate are clean and slightly moistened.



Note: If necessary, apply a thin film of petroleum jelly (e.g. Vaseline) to the brim of the mould in contact with the plate to prevent the mould from leaking during filling with grout.

2. Place the mould on the plate.
3. Pour the grout slowly into the mould until the level of the grout has reached the upper brim.
4. Steadily lift the mould from the plate and kept it above the spread for a maximum of 30 s. before it is taken away.
5. Measure the grout spread in two perpendicular directions at 30 s. after the start of lifting the mould.
6. Report the spread diameter as the average measured in the two perpendicular directions across the grout spread in millimeters.

Maintenance

Thoroughly clean the mold and plate after use as residue from previous tests will affect the results of future tests.

Order Information

| | |
|------------------------------------|----------------------|
| Plate and mould | 5300.00.00000 |
| Polished steel plate | 5300.00.00001 |
| Cylindrical mould | 5300.00.00002 |
| Stopwatch | 3600.00.00000 |
| Digital probe thermometer | 3700.10.00000 |
| Stainless steel Ruler 300 mm / 12" | 3900.00.00300 |