

Chloride ion penetration meter

ASTM C1202 | AASHTO T277

MAIN FEATURES

- **Double version: model with 4 or 8 independent channels**
- **Wide touch screen color display**
- **Programmable test duration and adjustable measuring rate starting from 1 minute**
- **Unlimited data storage on SD card**

GENERAL DESCRIPTION

The concrete durability is negatively influenced by the chloride ion penetration. This test method allows evaluation of chloride permeability characteristics of concrete. The test is performed to monitor the amount of electrical current passing through concrete cores or cylinders. A potential difference is maintained across the ends of the specimen, one of which is the negative end and is immersed in a sodium chloride solution, the other (positive end) in a sodium hydroxide solution. The total charge passed, in Coulombs, that is related to the resistance of the specimen to chloride ion penetration, is measured.

Two versions are available: model with 4 and 8 independent channels suitable to perform tests on up to 4 and 8 specimens contemporaneously.

For each specimen a test cell is necessary. Test cells are not included with the instrument and are proposed as separate accessories.

TECHNICAL SPECIFICATIONS

- Testing up to 8 cells simultaneously
- Every channel is independent
- Programmable test duration
- Adjustable measuring rate starting from 1 minute
- Measurement and record of the test temperature during the whole test
- Measuring technique: transmitted current is measured and integrated over time in presence of 60V DC potential difference precisely applied and maintained constant
- 4.3" touch screen color display
- Data storage on SD card
- Micro USB port to download data to PC
- Easy to use interface
- Test cells are not included (they shall be ordered separately, see accessories)
- Accuracy: +/-0.1V, +/-1mA
- 110-230V, 50-60Hz, 1Ph
- Dimensions:

Instrument: 430x265 x150 mm

Cell: 165x155x50 mm (approx.)

- Weight approx.:

Instrument: 5.7 kg

Cell: 2.2 kg

DATA SHEET

ORDERING INFO

58-E5204

Chloride penetration meter, model for 4 test cells.
110-230 V, 50-60 Hz, 1 ph

58-E5208

Chloride penetration meter, model for 8 test cells
110-230 V, 50-60 Hz, 1 ph

ACCESSORIES

58-E5220

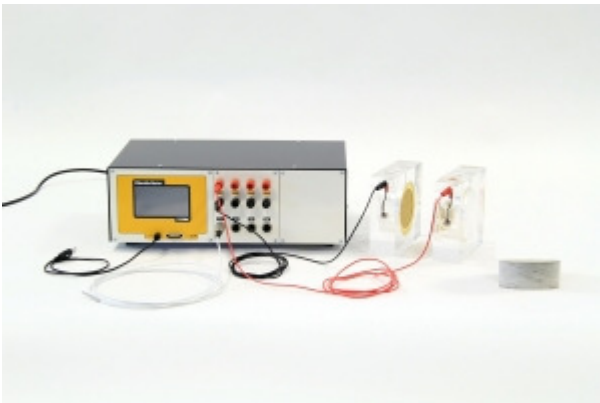
Complete test cell for chloride ion penetration meter including heads and cables. Compatible with instruments 58-E520x series

58-E0052/1

Vacuum saturation apparatus required by ASTM C1202 in order to fully saturate the specimen with water.
230V/50-60Hz/1ph

58-E0052/1Z

Vacuum saturation apparatus required by ASTM C1202 in order to fully saturate the specimen with water.
110V/60Hz/1ph



Chloride penetration meter, 4 channels model 58-E5204: complete set



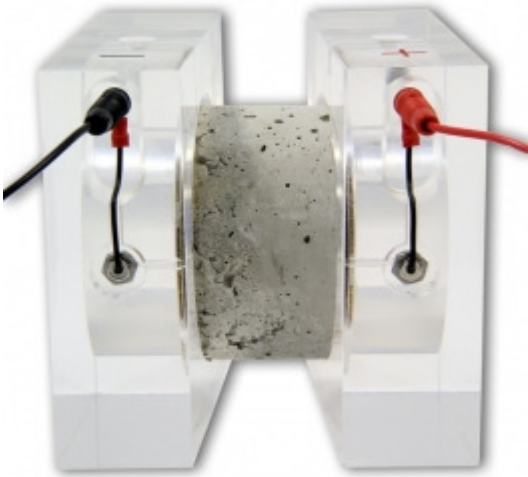
Chloride penetration meter, 4 channels model 58-E5204

DATA SHEET



Complete test cell for chloride ion penetration meter including heads,

temperature probe and cables code 58-E5220



Test cell code 58-E5220 with concrete specimen



Vacuum saturation apparatus required by ASTM C1202 in order to fully

saturate the specimen with water, model 58-E0052/1