The two fissurometers type FM 100 (see Fig. 1) and type FM 250 are mechanical fissurometers for taking distance measurements on measuring rods spaced approx. 100 or 250 mm apart. Using an appropriate setting gauge, two 20 mm diameter boreholes are drilled to a depth of 80 mm. Measuring rods type FB 70 are inserted in the boreholes and secured to the structure by means of fast-hardening cement or plastic mortar.

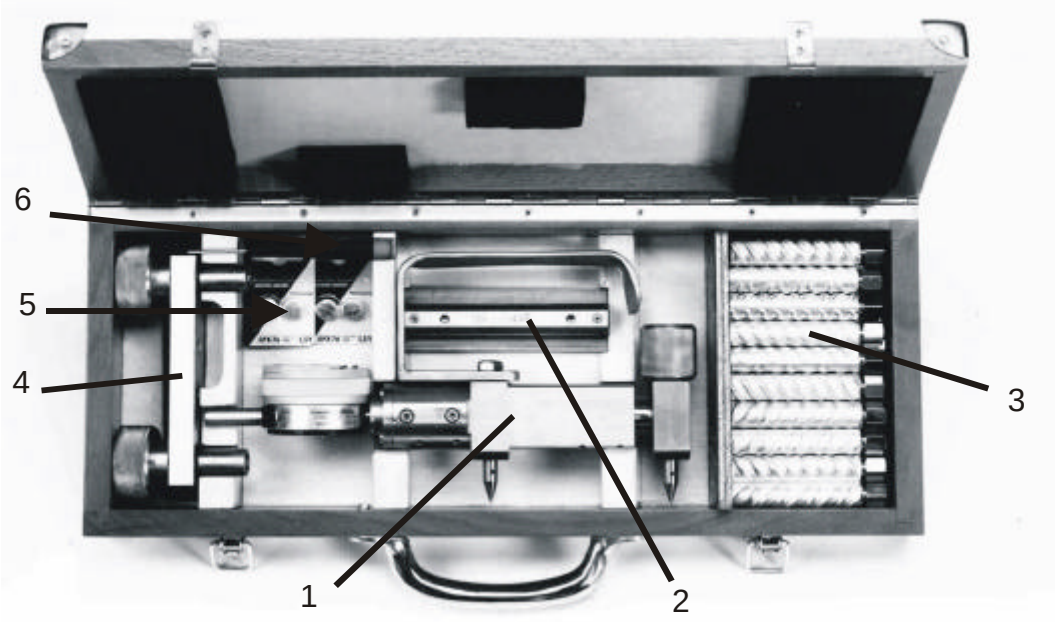

Fig. 1 Mechanical fissurometer type FM 100 with accessories. 1 Fissurometer, 2 Calibration device made of INVAR steel, 3 Measuring rod type FB 70, 4 Setting gauge, 5 Spare batteries for electric dial gauge, 6 Screwdriver for changing the battery

To take measurements, the spherical probe tips of the fissurometer are inserted in the conical measurement marks of the rods and gently pressed into position. The distance between the rods can then be read off the electric dial gauge with a reading accuracy of ± 0.001 mm; a measuring accuracy of ± 0.002 mm is possible. The fissurometer has a measurement range of 12 mm. Before and after each measurement cycle the instrument must be calibrated on a calibration device made of INVAR steel, and the temperature must be measured to allow for temperature compensation if required.

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