

**BREAKING POINT - FRAASS**

**IP 80 EN 12593 DIN 52012 BITUMEN AND BITUMINOUS BINDERS - DETERMINATION OF THE FRAASS BREAKING POINT**

*This standard specifies a method for determining the Fraass breaking point which provides a measure of the brittleness of bitumen and bituminous binders at low temperature.*

Comprises 2 concentric resin tubes topped by two clamps for the plate and the flexing brass system, harmonic steel plate 41x20x0.15mm, a cooling system by dry ice with 3 concentric glass tubes and funnel, a cork stopper.

**2520 FRAASS APPARATUS**

**2520/BIS FRAASS APPARATUS**  
With Dewar

Bench model with refrigeration group system up to -30°C (-22°F), external frame painted with epoxy acid-proof and internal aluminum block with inspection window with light. Glass probe PT100A, color touch screen front panel, automatic ramp at 1°C/min, heating element for a quick return to a ambient temperature, automatic movement electric system for plate, inspection window for visual determination of the breaking point

- Technical specifications:
- Temperature: from ambient to -30°C (-22°F)
  - Power supply: 230V ±10% 50Hz
  - Power: 1300W
  - Dimensions: 60x80x82 cm
  - Peso: 80 kg

**2520/SEM SEMI-AUTOMATIC FRAASS**

**ACCESSORIES ON REQUEST**

- 10-2521 PLATE, pack of 25 pcs  
Made of armonic steel, 41x20x0.5 mm
- 10-2522 HEATING/COOLING DEVICE  
With bubble level and and level adjustment screws. two distinct zones: one temperature regulated and controlled, the other one cooled by water circulation. Magnet block with a flat and smooth surface holding one to three plates with a suitable cover.
- T-IP42C THERMOMETER IP 42C

**CONSUMABLES x 2 YEARS**

- 10-2521 PLATE, pack of 25 pcs x2

**SPARE PARTS**

- 15-2522/E OUTER GLASS TUBE
- 15-2522/M MEDIAN GLASS TUBE
- 15-2522/I INNER GLASS TUBE
- 15-2523 LAMP
- 15-2524/B MEGNET BLOCK
- 15-2524/C HOLDING COVER
- 15-2525 FILLER FUNNEL
- 15-2526 CORK SERIES, pack of 3 pcs
- 15-2527 BRASS SYSTEM BENDING
- 15-2528 DEWAR
- 15-2529/G OUTER TUBE
- 15-2529/P INNER TUBE

