

# AUTOMATIC RING AND BALL TESTER - SOFTENING POINT

I20-22000

# MatCivTest

MATERIAL CIVIL TEST EQUIPMENT

## I20-22000 Automatic ring and ball / Softening Point apparatus. Comments from the CEO of Infratest

First of all please be aware that ALL automatic softening point devices on the market are "copies" from different generations of Infratest models.

To make a copy doesn't mean they understand how the device really works.

- If we use water for standard bitumen the heating ramp has a constant behaviour
- for polymer modified bitumen and glycerol the heating ramp is highly non linear.

Glycerol is performing a Rayleigh Benard Convection pattern (RBC) which at a certain temperature brings chaos into the heating ramp. That's why we use a radiant heater (light) to transfer the energy into the beaker. (quick on and off).



You can follow the ramp on the screen, in addition it is stored, so every test can be traced. Via data collection

Specs are....sometimes...how can we say a bit old fashioned... for example the reference thermometer in EN is still a mercury one (which is band from use years ago). The behaviour from mercury (K/min) is different from a PT 100. (at lower temp. the mercury reacts quicker than a PT100, for higher temp it is vice versa)

It would be important for us to know which reference thermometer for calibration you want to use as we can adjust the machine to any standard needed.

And the good news, The Infratest model 20-22000 is a machine, you press start and walk away. Readout is via USB

The electronic platform is based on a standard technology, raspberry pi CPU processor, and is available everywhere in the world.

And yes you can have a machine with longer payment terms. During this time if you are not 100% happy you can return the machine without cost from your side. If you like it, you pay and it is yours then. We think that's fair.

We will have an open house exhibition in Sydney on 18 and 19 November (with beer and machines)

Hope to see you there.

Warm regards

**Matthias Martus**  
CEO Infratest



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