

TABLET HARDNESS TESTER

TO DETERMINE COMPACTNESS OF TABLETS AND SIMILAR PRODUCTS



MODEL : THP

USE

The instrument provides means of precise and validated hardness measurements for tablets and similar products (calibration by means of weights). It can be used either in the laboratory or at the tableting machine. Can also be used to determine hardness of confectionary products, mosquito-repellant mats and other similar pellets.

MAIN HAND & MAXIMUM HAND

The dial gauge is provided with main as well as maximum reading hands. As the screw is turned, both the hands move in tandem. Once the tablet is broken, the main hand comes back to zero position, while the maximum hand shows the reading at which the tablet has been broken.

PRINCIPLE OF MEASUREMENT

Load is applied by turning the knob which brings down the load chamber onto the tablet. With further turning, the resistance of the tablet to crushing will be transmitted through a calibrated spring to the dial gauge. The reading on the dial gauge gives the hardness of the tablet. Even slight displacement of the screw ensures the application of the load to the tablet under test till it breaks and maximum reading pointer measures the force while the main pointer returns back to zero position.

CALIBRATION

The tester is so uniquely designed that "in-house" calibration can be carried within a few minutes. Remove the lower anvil on which the tablet is kept, by loosening "a lock-screw on the side of the bottom plate. Now, keep the tester upside down resting on 2 similar supports. Fix the special pan through the bottom plate onto the plunger. The tester is now ready for calibration - check, by applying known calibrated weights onto the pan gradually and observe the readings on the dial

MEASURING UNITS

The dial gauge is calibrated 0-20 kgf with a least count of 0.2 kgf.

PACKING

The tester is supplied in a strong thermo-cole box.

BOX DIMENSIONS : 37 x 24 x 12 cm
WEIGHT : 3.3 kg

"BLUESTEEL HOUSE"