Suppository melting point tester

SSP

The ERWEKA SSP measures the melting point of suppository samples. It consists of a graduated tube with an integrated test chamber made of glass. The sample to be tested is placed in the spiral shaped glass test basket inside the test chamber, which is surrounded by a water jacket.

The water inside the jacket can be simply heated by the optional circulation heater EST 2 and the melting point is determined by a stop watch.

Suppository melting point testing

Suppository penetration tester

PM 30

The ERWEKA PM 30 measures the softening time of suppositories. Suppositories must disintegrate, dissolve or melt at body temperature in order to release their active ingredients to the body. ERWEKA offers a version for USP method A and method B.

The PM 30 penetration tester (compliant to EP, Apparatus A) and the PM 3 (acc. to EP, App. B) have been designed to carry out reproducible measurements regarding the softening time of suppositories at predetermined temperatures. The construction of the tester makes visual observation of the melting characteristics extremely simple. In total, the unit comprises of three test stations.

Suppository penetration testing

Suppository disintegration tester

ST 35

The ERWEKA suppository disintegration tester ST 35 comes with three turning test stations, each located inside a four liter glass vessel with an optional magnetic stirrer. Additionally, the unit contains a thermostatically heated water bath, in which the test stations are placed.

The test stations are automatically turned 180° in adjustable intervals. The ST 35 features an integrated flow-through heating system (accuracy ± 0.2° C) and an internal temperature sensor for temperature display.

Test time and nominal bath temperature are easily entered via the membrane keys. Current test time as well as actual water temperature are shown on a LED display. On request, an alarm may be selected to sound upon completion of the preset test time. Due to the width of the ST 35, the test stations can be easily separated to facilitate the cleaning process.

Suppository disintegration testing

Suppository hardness tester

SBT 2

The suppository hardness tester (type SBT 2) consists of an electrically heated chamber with an integrated sample holder and a number of interchangeable plastic inserts to accept various sized suppositories. Once up to the desired temperature, the hardness is checked by weights (included in the standard delivery range) which are gradually placed on the device until the suppository collapses under the load of the added weights.

The results are expressed in terms of total weight required to bring about the collapse of the suppository.

Suppository hardness testing by weight