

Semi Automated Tablet Friability Test Instrument - Type PTF 30ERA



The **PTF 30ERA** is a multiple drum Friabilator with automated sample discharging option at the end of a test run. It is equipped as standard with 3 Perspex (plexi glass) Friabilator drums attached to a single drive axis. A DC motor is used to rotate the drums, the rotation speed can be selected as well as the number of drum revolution or the total testing time.

One of the testing criteria of mechanical strength according to the USP <1216>, EP <2.9.7> and other pharmacopoeia of tablets and cores is Friability and Abrasion testing. During the process of coating, transportation, packing etc. the tablet will loose some weight. To measure the weight loss the samples are counted and weighed. Thereafter the Friability test is performed following the individual monographs of the Pharmacopoeia. When finished the samples have to be de-dusted and weighted again. Actually the difference between the weight before and after the test is determined as Friability which usually should not exceed 1%. Tablets of a diameter more than 13 mm are tested while the apparatus is lifted at one side for about 10°.



We offer to the user a series of instruments to meet his requirements. Each of the instruments can be optionally equipped with an Abrasion Drum having a diameter of 20 cm and inside 12 lamellas. The standard Friability Drum

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causes the samples to roll and fall during the test while the Abrasion Drum continuously stresses the sample by abrasion by the lamellas.

PTF 30ERA - Automated Tablet Friability Test using 3 drums. A noiseless DC gear motor offering adjustable rotation speed in the range of 20-60 rpm does drive the drum axis. The drums are made from Plexiglas and separated into two parts, the drum body and a removable cover, opened to clean the drum from inside when required. The samples are discharged after the test through corresponding holes inside the drum body into individual stainless steel collectors. The bottom of the stainless steel collectors is made from perforated metal to allow the removal of dust and particles which is again collected inside an inox tray. Test information, rotating speed and other entries are done using the keyboard of the instrument. A LED display informs the user of actual selected speed or remaining test duration time.

Principle of Operation...

Clean the samples from any dust prior to the test. Weigh the samples and introduce them into any drum of the instrument via the filling hole. Program the test information, such as speed, time etc. and start the run. When the test is finished the drum revolution stops and the samples are automatically discharged into individual collectors. De-dust the samples using a brush and weigh again. The maximum mean weight loss from 3 consequent tests should not exceed 1%.

Featuring:

- 3 Friability Drums made from Plexiglas (optional incl. antistatic coating), in compliance with the USP <1216>, EP <2.9.7> and DAB pharmacopoeia
- Variable drum rotation speed, range 20 to 60 rpm
- Programmable number of drum revolutions or rotating time
- Automated sample collection at the end of a run
- Keyboard to enter speed, time or number of revolutions
- LED Display showing data entries and operation status
- Instrument housing made from stainless steel to meet GLP requirements
- IQ/OQ Documentation included

Options:

- Friability Drum incl. antistatic coating
- Tablet Abrasion drum (no auto-discharging)
- 10° instrument stand
- Qualification Equipment



Abrasion Drum

Technical Data

Display:	LED Display
Keyboard:	numerical and function keys
Key entries:	speed, time or number of revolutions
Drum rotating speed:	adjustable, 20 - 60 rpm
Test Drums:	3 Friability Drums with discharging hole

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Speed accuracy per minute: ± 1 rpm up to 30 rpm - ± 2 rpm up to 60 rpm

Enter total testing time: 1 - 9999 seconds

or enter no. of revolutions: 1 - 9999 revolutions

Weights and Dimensions (approximate)

Net weight: 19 kg

Gross weight: 25 kg

Packaging: 650 mm x 470 mm x 690 mm



PTF 60ERA includes 6 off Friability Drums

We reserve the right to make technical changes without any prior notice

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