

(54) Title of the invention : HUMIDITY CONTROLLED FRIABILITY TEST APPARATUS

(51)
International :F24F0003140000,G01N0019100000,G01N0003400000,B01J0008040000,G01N0003560000
classification
(31) Priority
Document :NA
No
(32) Priority :NA
Date
(33) Name
of priority :NA
country
(86)
International
Application :NA
No :NA
Filing
Date
(87)
International : NA
Publication
No
(61) Patent
of Addition
to :NA
Application :NA
Number
Filing
Date
(62)
Divisional to
Application :NA
Number :NA
Filing
Date

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(57) Abstract :

The Humidity Controller Friability Apparatus (HCFA) is an apparatus which is used to determine the mechanical strength of compressed and uncoated tablets for the determination of Physical strength for transportation and stability of tablets. The Humidity Controller Friability Apparatus is designed to provide a humidity free environment for the test sample in the drum of apparatus that will provide precise results in friability. Humidity will controlled in drum of friability apparatus with the help of adsorbent (silica gel) and humidity monitoring device (hygrometer). Assembly of adsorbent (silica gel) and humidity monitoring device set on the middle groove in outside wall of rotating drum. Sample collection tray is perforated for better result. With the help of perforations breakage part of sample is removed in the lower rejection tray and de-dusted tablets after test are collected that will enhance precise result of weight. This invention is an addition of assembly with adsorbent (silica gel) and Humidity monitoring device, sample collection tray with perforation with a rejection tray. Fixed adsorbent perforated plate is place in the baffles of rotating Drum for the moisture absorb present in the environment of baffles. So That these types of designed apparatus are suitably help for the measurement of mechanical strength of a compressed a tablet with humidity controller

No. of Pages : 10 No. of Claims : 7