



EIE INSTRUMENTS PVT. LTD.

www.eieinstruments.com, www.eiepharmatest.com, www.eieceratest.com, www.eiepetrotest.com



B-14, Zaveri Industrial Estate, Opp. Shyam-Villa Society, Near Sarswati Vidhyalaya, Kathwada GIDC road, Near Singarva Bus Stand, Off. National Highway, Ahmedabad – 382430, Gujarat, India

Email : service@eieinstruments.com , kunal@eieinstruments.com

Telephone: +91-9909903582, +91-79-66040600

Organisation's ISO 9001:2015 Certificate

QUALITY MANAGEMENT SYSTEM

Certificate of Registration



This is to Certify That The Quality Management System of

EIE INSTRUMENTS PVT. LTD.

A/1301, BVR EK, OPP HOTEL INDER RESIDENCY, NEAR GUJARAT COLLEGE, ELLISBRIDGE, AHMEDABAD-380006
GUJARAT, INDIA.

has been assessed and found to conform to the requirements of

ISO 9001:2015


for the following scope :

MANUFACTURER & SUPPLIER OF LABORATORY TESTING INSTRUMENTS.

Certificate No	22DQJT93	
Initial Registration Date	: 27/06/2022	Issuance Date : 27/06/2022
Date of Expiry*	: 26/06/2025	
1st Surve. Due	: 27/05/2023	2nd Surve. Due : 27/05/2024


DIRECTOR
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B-7, 1st Floor, Sector-2 Noida, Gautam Budhi Nagar, UP-201301
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The Registration is not a Product Quality Certificate. *Subject to successful completion of surveillance audits. Visit for verification on www.rohs-certification.co.in
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 EIE INSTRUMENTS PVT. LTD.	Operation & Maintenance Instruction Manual	
	Equipment Name: Collapsibility Tester (Annealing Tester)	Equipment Serial Number:
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Dear valued customer,

We are thankful of you for your keen interest in our company products. We hope you enjoy using them and find them to be helpful and reliable. We greatly appreciate your business and the opportunity you have provided us to assist you. You have joined a selected group of customers who have switched to the technologically superior and quality enhanced laboratory testing products.

Time has changed, so does the technology. Your purchase lists you on the cutting edge of the 21st century technology. To help you get the most out of your EIE Instruments Pvt. Ltd. products, we have created this instruction manual that is an excellent way of expressing and maintaining your trust in EIE's - superior quality testing products. Our continued efforts and commitment are to provide you with the best and efficient services after sales, prompt attention and the highest level of customer satisfaction. If for any reasons, you have questions or comments, we are delighted to hear from you. We welcome your feedback for further improvement in our product(s). We would be happy to help you in any way we can. You can contact us on **+91-9909903582** or send us an email at **service@eieinstruments.com/kunal@eieinstruments.com**. You can expect us to respond to your call or email within 24-48 working hours.

Once again, we would like to thank you for your trust and kind patronage. We look forward to serve you better in the future.

Yours sincerely,

EIE Instruments Private Limited



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1 Introduction to EIE – Collapsibility Tester

EIE – Collapsibility Tester is used to conduct the standard method of test and requirement for assessing the functional quality of aluminium collapsible tubes.

2 Working Principle


A standard load is allowed to fall on the empty tube and the resistance offered to this load is measured.

3 Salient Features

- Most simple and accurate
- Skilled operator not required
- Expensive machines not required
- Compact in size

4 Safety Instructions

- Anyone working with, on or around this equipment should read this operating manual. Failure to read, understand and follow the instructions given in this documentation may result in the damage to the unit, injury to operating personnel, and/or poor equipment performance.
- Any internal adjustment, modification or maintenance to this equipment must be undertaken only by qualified service personnel.
- This instrument is designed for laboratory usage only. Please read this manual carefully before installing and operating. The instrument shall not be modified in any way. Any modification will void the warranty and may result in potential hazard. We are not responsible for any injury or damage caused by any non-intended purposes and modifying the instrument without authorization.
- The use of any hazardous materials in this equipment must be monitored by an industrial hygienist, safety officer or some other suitably qualified individual. Before the individual process, the operator must thoroughly understand the installation procedures and take note of the environmental and electrical requirements of the equipment.
- In this operating manual, important safety related points will be marked with the symbol. If the equipment is used in a manner not specified by this operating manual, the protection provided by this equipment may be impaired.

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- All EIE equipment are designed to be operated with the highest level of safety. This standard operating & maintenance manual issues note, caution and warning symbols throughout to draw your attention to provide you the important operational and safety information.

4.1 Safety Symbols & Significance




Read and understand all instructions and safety precautions listed in this manual before installing or operating your unit. If you have any questions regarding operation of the unit or instructions in this manual, contact our service department.



Thoroughly understand the safety features and operation of the equipment. This manual will provide operators with safety concerns and general procedures. Be familiar with correct operating principals and use good judgement. Also refer to the appropriate manuals for system component safety instruction manuals.

5 Delivery and Uncrating of the Apparatus

1. Inspect equipment and shipping crate immediately upon receipt. If any damage is apparent, immediately discuss it with the delivery person and contact the transportation company immediately. Make notes of any damages on the bill of landing.
2. Retain all shipping material for later inspection.
3. Check packing slip carefully and ensure all materials have been received as indicated in packing slip.
4. Remove packing strip from surroundings of the instrument and all its accessories. Please inspect and note whether any part of the instrument is damaged or any accessory is missing according to packing slip? If it is so, then immediately make note of it and report to the manufacturer.
5. Due to the vibration incurred during shipping and handling, it is possible that mechanical connection could become loose. Inspect all connection to ensure that they are secure.
6. After visual inspection, if everything is found to be okay, transit the instrument to suitable safe place where it is intended to install. **CAUTION: Handle with care.**
7. Recycle the packing material. Do not throw it away for environment protection.

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5.1 How to Make Instrument Ready for the Use?

- 1) Keep the equipment in a well ventilated place.
- 2) Place the equipment on an even, plane and sturdy surface leaving approximately 1 foot – 2 feet space away from the wall.
- 3) Do not use the unit in a corrosive environment. A corrosive environment may lead to poor performance and deterioration of unit.
- 4) Keep instrument away from draft, sunlight, water or near a place of equipment, which emits heat as well as electromagnetic conduction emission.
- 5) Keep the standard operating manual handy while operating the apparatus.

6 Apparatus Required to Conduct the Test

The apparatus shall be as detailed in figure 1. For tube of diameter 13.5 mm, the auxiliary base plate as shown in the figure 1 is to be inserted in the apparatus.

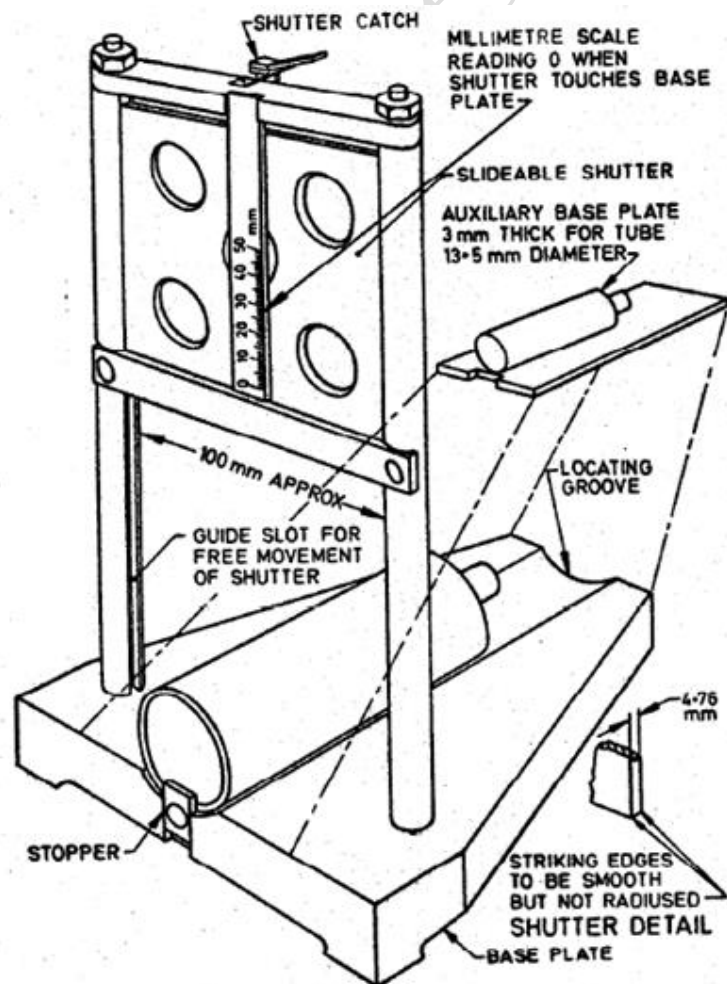



Figure 1: Collapsibility Test Apparatus

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7 Standard Operating Procedure

1. Place the tube on the groove, or in the case of tube of diameter 13.5 mm on top of the auxiliary base plate, on the base of the apparatus with the open end touching the stopper.
2. Release the shutter and allow to fall upon the tube.
3. Read on the scale the position of the top of the shutter.

8 Acceptable Quality Levels

When collapsible tubes are tested in this manner, the minimum and maximum limits for collapsibility readings which can be used for fixing suitable acceptable quality level (AQLS) between the manufacturer and the user should be as shown below:


Diameter of tube in mm	Collapsibility readings in mm (Minimum)	Collapsibility readings in mm (Maximum)
13.5	7	10
16	4	6
19	5	8
22	6	10
25	11	15
30	16	20
35	21	25
40	24	28
45	30	35

NOTE: Use supplementary base plate for tube diameter 13.5 mm.

NOTE: This test is not applicable to tubes of diameter greater than 45 mm.

9 Precaution to be Followed

- While cleaning, take care that the small/sensitive parts which should not be get damaged.
- Keep the instrument tidy, clean and dry with mint cream. Before initiating the fresh day, use preferably clean soft cloth. Brush up the unit body as to maintain its finishing.
- Cover the instrument properly when not in use.
- Disassembly of this equipment is strictly limited to the qualified persons and licensed engineers.
- In case of any difficulty, please do not try to repairs without consulting the manufacturer, especially when the instrument is under warrantee period.


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Warranty Certificate

Your EIE product is guaranteed to be free from defects in materials and workmanship for one (1) year under normal use from the date of purchase. This warranty does not apply to any product damaged by accident, misuse, mishandling, abuse, negligence, transit, improper line voltage, drop, fire, flood or if the products were altered or repaired by anyone other than the qualified service personnel. The liability of EIE Instruments is limited to repair or replacement and under no circumstances shall EIE be liable for any collateral consequential damages or loss. This guarantee specifically excludes the expendables and consumables. All warranty claims must be directed to your corresponding purchase organization that is responsible for the sale of this equipment. The users are responsible for shipping expense. The warranty cards which are not signed and stamped by the actual user will be treated as void. The warranty card should accompany the defective products sent for repair, without which no claims would be entertained. Please detach the below warranty card from following cut-line.

Attributes	Details
Name of the company	
Address	
Telephone number	
Mobile number	
Email address	
Date of purchase	
Product model	
Serial Number	
Bill or cash memo number	

This card should be detached, filled in properly and posted within 15 days from the date of purchase otherwise the warranty becomes invalid.

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– End of the document –

If you have any note or queries,

Please write to us at info@eieinstruments.com, Thank you!

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Ceramic Tiles Testing Instruments	ISO 17025 Accredited Calibration Lab



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Corporate Office

EIE INSTRUMENTS PVT. LTD.

A-1301, BVR EK BUILDING, Gujarat College Road,
Opp. Inder Residency, Ellis bridge, Ahmedabad, Gujarat-380006, India

Website: www.eieinstruments.com

Phone Number: +91-79-66211234,

Email Address: info@eieinstruments.com

Calibration Laboratory

EIE INSTRUMENTS PVT. LTD.

B-14, Zaveri Industrial Estate, Kathwada Singarva Road,
Opp. Shyam, villa Society, Kathwada, Ahmedabad,
Gujarat - 382430, India

Phone Number: +91-79-66040660,

Website: www.eieinstruments.com

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