

CIRCOT Calibration Cotton

All textile testing laboratories in India including those of textile mills and R&D establishments are using imported USDA calibration cotton standards for calibrating fibre testing instruments such as **Fibrograph, Micronaire, Stelometer** and HVI **system**. The import of calibration cotton is time consuming, expensive and involves valuable foreign exchange.

CIRCOT is supplying indigenously prepared calibration cotton standards having quality characteristics similar to those of USDA calibration cottons for the last 10 years. Large number of textile mills, R. & D. establishments and HVI manufacturers in the country are using CIRCOT calibration cotton standards for calibrating their instruments since 1997.

Two sets of calibration cotton standards are available: -

- ⇒ One set is for **Conventional Instruments**.
- ⇒ The other set is for **HVI System both ICC and HVI mode**.

The net weight of each sample is **200 grams**. The cost of one individual sample is Rs 750/-. A rebate of Rs 125/- per sample is offered for the purchase of **four or more** samples at a time. A further discount of 10% will be given for orders placed for Rs. 10,000/= or above at a time. However the cost of one individual Mic only sample is Rs 300/- only. The amount should be paid in advance by cash or cheque (Mumbai) / demand draft drawn in favor of **Director, Central Institute for Research on Cotton Technology**.

The samples are supplied in handy cylindrical containers packed in labeled cartons for easy transport. Local parties may collect the set(s) across the counter at CIRCOT. For outstation parties the samples will be dispatched by **Registered Post Parcel**.

A summary of the fibre characteristics of the sample sets meant for **Conventional Instruments** and **HVI System** are appended. The values of the standards for the HVI set are given in both *International Calibration Cotton (ICC)* mode (Table 2A) and *HVI mode* (Table 2B) to help the Indian Mills to overcome the difficulty caused by the stoppage of ICC Cotton supply by USDA.

Quality Characteristics of CIRCOT Calibration Cottons

1 Conventional Set

Code	2.5 % Span Length (mm)	Uniformity Ratio (%)	Micronaire Value (µg/inch)	Tenacity* (g/tex)	Elongation* (%)
D - 2	28.6	48.0	4.60	20.6	6.8
E - 6	30.0	45.0	3.50	20.5	5.6
Hlm - 2#	--	--	2.70	--	--

* 3.2 mm gauge length, Stelometer: @ Special Length & Mic only Short Cotton Sample

High Volume Instrument Set - ICC Mode

Code	2.5 % S L (mm)	U R (%)	Micronaire Value	Tenacity (g/tex)**	Elongation (%)
HM - 8	21.5	51.5	5.50	16.8	5.3
HC - 3	28.9	48.0	4.65	22.2	7.3
HD - 3	30.0	44.5	3.50	22.3	6.2
HD - 4	30.7	44.5	2.78	24.9	6.2
HE - 7	36.0	41.0	2.85	31.7	5.6
Hlm - 2#	-	-	2.70	-	-
Tolerances	±0.5	±1.0	±0.10	±1.5	

Specially for Mic only

**3.2mm gauge length

High Volume Instrument Set - HVI Mode

Code	Upper Half Mean Length	Uniformity Index	Micronaire Value	Tenacity* (g/tex)	Elongation (%)
HM - 8	22.0	77.4	5.50	22.3	5.3
HC - 3	28.1	83.0	4.65	28.7	7.3
HD - 3	30.1	83.0	3.50	29.3	6.2
HD - 4	31.3	82.5	2.78	33.3	6.2
HE - 7	36.2	86.0	2.85	41.4	5.6
Hlm - 2#	-	-	2.70	-	-
Tolerances	±0.5	±1.0	±0.10	±1.5	

**3.2mm gauge length

Specially for Mic only

- Please visit our website (URL): <http://www.circot.res.in/calib.pdf>
or e- mail **circot@vsnl.com; circotcalibcot@rediffmail.com** for
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