



CIRCOT CALIBRATION COTTONS

for

Conventional Fibre Testing
Equipment and HVI System



CIRCOT Calibration Cottons

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 offering indigenously prepared calibration cotton standards having quality characteristics similar to those of USDA calibration cottons.

Two sets of calibration cotton standards are available :-

- One set comprises four samples coded as **A, B, C and D** for **Conventional Instruments**.
- The other set consists of four samples coded as **HA, HB, HC and HD** for **HVI System**.

The net weight of each sample is **200 grams** and the cost of each Set is **Rs. 2000/-**. One or more individual samples can also be supplied at the rate of Rs 600 per sample as per the customer's requirements. A concession of Rs 100/- per sample is offered for the purchase of **four or more** samples at a time. The amount should be paid in cash or cheque (Mumbai) / demand draft drawn in favour of **Director, Central Institute for Research on Cotton Technology**.

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

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)* and *HVI* modes 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

	2.5 % Span Length (mm)	50% Span Length (mm)	Uniformity Ratio (%)	Micronaire Value (μ g/inch)	Zero gauge length (g/tex)	3.2 mm gauge length (g/tex)	Elongation (%)
A	17.5	8.9	50.8	7.83	40.0	NA	NA
B	21.8	10.4	47.4	4.43	48.2	19.1	4.38
C	23.9	11.4	47.7	3.81	44.1	18.9	5.11
D	28.7	12.8	44.5	3.09	47.5	22.5	5.58
Tolerances	± 0.50	± 0.50	± 1.0	± 0.12	± 1.30	± 1.0	± 0.6

(2) High Volume Instrument Set

(a) ICC mode

	2.5% Span Length (mm)	Uniformity Ratio (%)	Micronaire Value (μ g/inch)	Tenacity 3.2 mm gauge length (g/tex)
HA	22.4	48.0	4.37	17.1
HB	24.0	47.8	3.83	20.1
HC	29.2	45.2	2.99	24.7
HD *	34.8	41.0	2.69	28.3
Tolerances	**	± 1.0	± 0.10	± 1.5

(b) HVI mode

	Upper Half Mean Length (mm)	Uniformity Index (%)	Micronaire Value (μ g/inch)	Tenacity 3.2 mm gauge length (g/tex)
HA	23.2	78.5	4.37	21.6
HB	24.6	79.3	3.83	25.4
HC	29.6	83.0	2.99	31.0
HD	35.6	84.3	2.69	34.9
Tolerances	**	± 1.5	± 0.10	± 1.5

NA - Not available * Only limited stock available ** 2 % of the length value
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