



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 the 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 in conformity with those of USDA calibration cottons.

Two sets of CIRCOT calibration cotton standards are available on payment :

- ★ for conventional instruments the set consists of four samples coded as A, B, C, and D.
- ★ for HVI system the set consists of 4 samples coded as HA, HB, HC and HD.

The net weight of each sample is 200 g. The cost of each set is Rs. 2000/- (Rupees two thousand only). Facility is also available to supply one or more individual samples as per requirement at the rate of Rs. 600/- per sample. The amount should be paid either in cash or cheque (local)/demand draft drawn in favour of the **Director, Central Institute for Research on Cotton Technology.**

The samples are supplied in handy cylindrical containers packed in attractive cartons for easy transport. Local parties may collect the sets 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 conventional and HVI sets is given in the following Table.

Quality Characteristics of CIRCOT Calibration Cottons

Code	2.5% Span Length (mm)	50% Span Length (mm)	Unifor- mity Ratio (%)	Micro- naire Value (μ g/ inch)	Bundle Strength		
					Zero gauge length (g/tex)	3.2 mm gauge length (g/tex)	Elonga- tion (%)
Conventional Set							
A	17.5 (± 0.14)	8.9 (± 0.11)	50.8 (± 0.50)	7.83 (± 0.00)	40.0 (± 0.38)	*	*
B	21.8 (± 0.19)	10.4 (± 0.10)	47.4 (± 0.22)	4.43 (± 0.01)	48.2 (± 0.36)	19.1 (± 0.28)	4.38 (± 0.08)
C	23.9 (± 0.18)	11.4 (± 0.16)	47.7 (± 0.46)	3.81 (± 0.01)	44.1 (± 0.51)	18.9 (± 0.24)	5.11 (± 0.10)
D	28.7 (± 0.12)	12.8 (± 0.09)	44.5 (± 0.28)	3.09 (± 0.01)	47.5 (± 0.48)	22.5 (± 0.20)	5.58 (± 0.16)
High Volume Instrument Set							
HA	22.4 (± 0.13)	—	48.0 (± 0.35)	4.37 (± 0.01)	*	17.1 (± 0.22)	—
HB	24.0 (± 0.13)	—	47.8 (± 0.13)	3.83 (± 0.02)	*	20.1 (± 0.11)	—
HC	29.2 (± 0.07)	—	45.2 (± 0.16)	2.99 (± 0.01)	*	24.7 (± 0.15)	—
HD	34.8 (± 0.16)	—	41.0 (± 0.48)	2.69 (± 0.03)	*	28.3 (± 0.32)	—

*Note : Figures in brackets indicate tolerance at 95% probability level.
These values are much less than the tolerance allowed by USDA.*

** These values are indeterminant.*



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