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Individual OFDA report

In-house method derived from IWTO-47

OFDA2000 settings: Correction factor ☒
Trim high ☐
Washed fibre ☐
(declared for this batch)

Client

Élevage Exemple

Data: Exemple_alpagas_09-07-2020.mes

Arno

Date of birth 30/04/19 · Sex M · Colour White · Sampled 16/05/20 · Alpaca

Class: Royal Baby

Diameter

Mean micron Mean fibre diameter 16.8 µm	SDD SD of diameter 4.18 µm	CVD Coefficient of variation 24.8 %	CEM Coarse edge 7.5 µm	CF Comfort factor 99.0 %	%<15µm Fibres < 15 µm 31.2	SpinF Spinning fineness 17.0 µm
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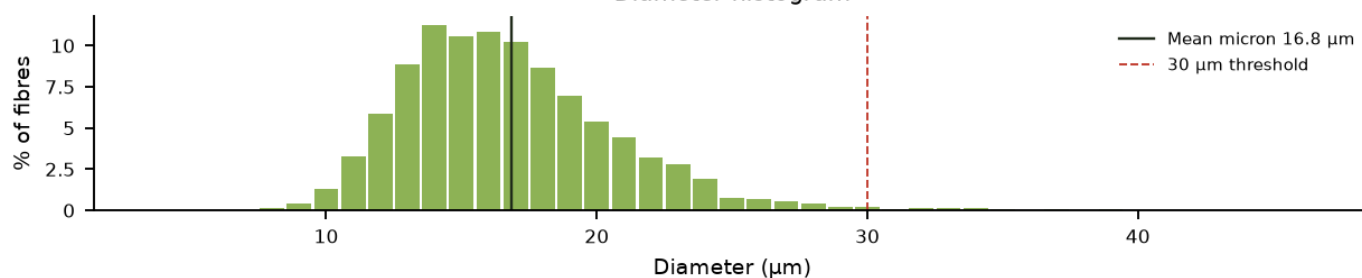
Profile along the staple and variation

Fine From Tip Tip to finest point 100 mm	MaxD Profile max. micron 18.8 µm	MinD Profile min. micron 15.4 µm	BaseD Skin side 15.4 µm	SD Along Profile Along the staple 1.11 µm	SD Across Between fibres 4.02 µm
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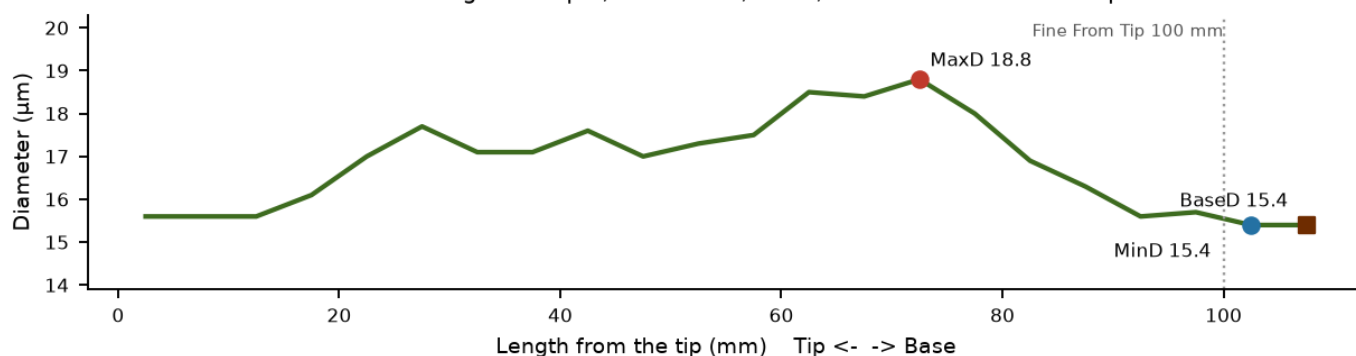
Curvature, length and number of fibres

Mean C Mean curvature 42.6 °/mm	SDC SD of curvature 34.4 °/mm	Length staple Staple length 110 mm	Number of fibres Fibres analysed 4,857
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Diameter histogram



Profile along the staple, with MaxD, MinD, BaseD and Fine From Tip



CVD = SDD / mean micron x 100 (%). SpinF = $0.881 \times \text{mean micron} \times \sqrt{1 + 5 \times (\text{CVD}/100)^2}$.

MaxD / MinD: highest / lowest mean diameter of the 5 mm segments of the staple. BaseD: last segment, skin side. Fine From Tip: distance from the tip to the finest segment.

SD Along Profile: variation along the staple. SD Across: variation between fibres, mean of the SDs of the 5 mm segments.

Highlighted box: SD Across (new). Values read from the .mes file; SpinF computed with the formula, %<15 µm computed from the histogram.

Comment

Arno is the finest animal in your herd (16.8 µm, Royal Baby), with a remarkable comfort of 99.0 %. His 110 mm staple, nice and long, is well suited to spinning. Born in 2019, he is still young: we advise you to have him tested again at the next shearing to confirm this fine result.

Compared with the batch: Batch mean: 21.66 µm (this animal -4.82 µm) · Batch mean SD: 5.02 µm (-0.84) · Batch mean CF: 93.0 % (+6.0 pts).

Fibre Lab metrology framework

OFDA 2000 measurement in snippet mode, in-house method derived from IWTO-47. Documented internal checks: daily self-test on reference fibres and a reference staple for each batch.

Processing options (Trim High, etc.) are stated when they apply. Procedure: metrology charter v3.0 - fibrebandco.com/en/content/6-our-quality-charter