

Optical Fiber Diameter Analyser (OFDA100) Micron Test Report

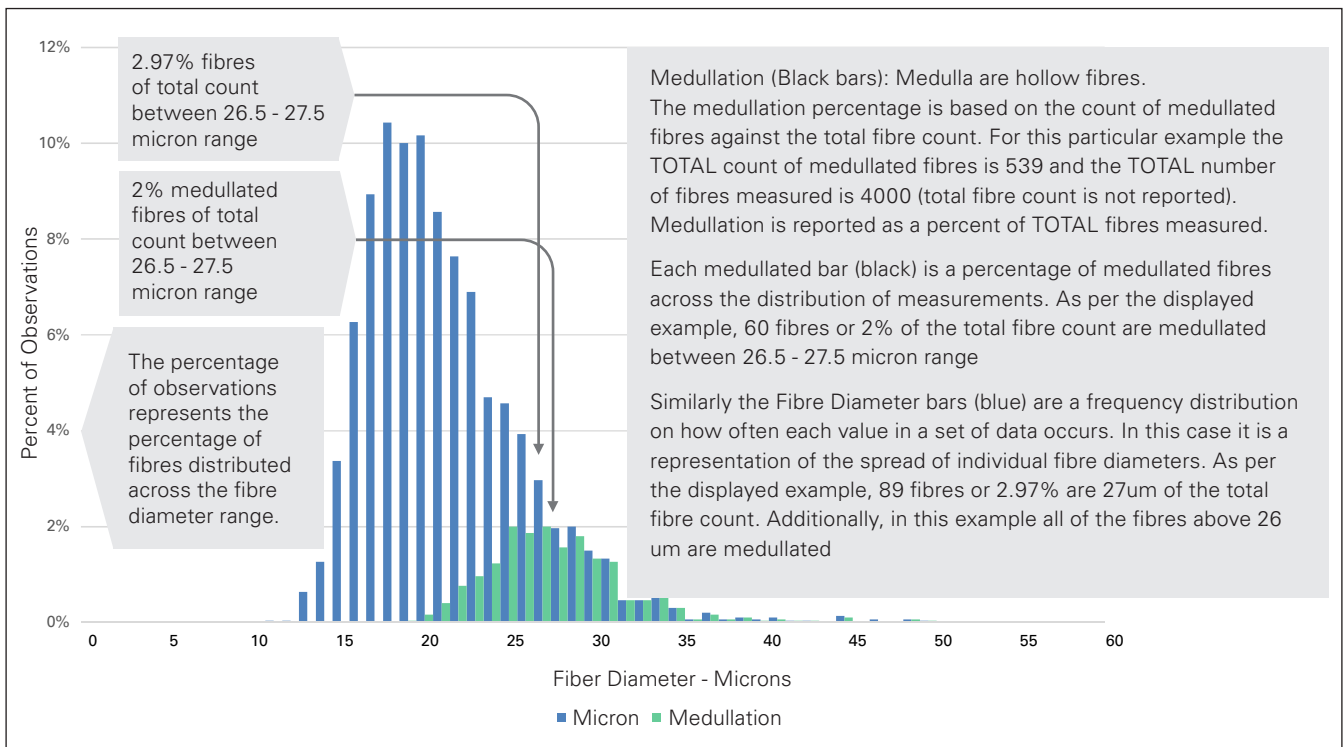
Date: 7-Oct-20
Shear ID:
Test No: 1

Animal and Sample Description

Animal Name:	Date of Birth (Age):
Registry #:	Sample Location: GRID
Breed:	Sample Date:
Sex:	Previous Shear Date:
Color:	Total Fleece Wt. (lbs.):

Laboratory Data

Mean Fiber Diameter:	21.3 microns	Mean Staple Length:	101 mm
Standard Deviation:	4.7 microns	Length Standard Deviation:	0.9 mm
Coefficient of Variation:	22.1 %	Length Coefficient of Variation:	0.9 %
Spin Fineness:	20.9 microns	Mean Curvature:	42.6 deg/mm
Fibers Greater Than 30 microns:	4.1 %	SD Curvature:	22.8 deg/mm
Comfort Factor:	95.9 %	Medullated Fibers:	18.0 %



Test Performed According to Method AS/NZS 4492.5:2000


Jeremy Wear
Business Manager


Ioasa Kosena
Authorised Signatory

SGS General Terms and Conditions

The validity of this document may be confirmed by contacting the address shown below
SGS NZ LTD - 48 Kemp Street, Kilbirnie 6022, Wellington, New Zealand.
Tel: 64-4-387 8565 Email: WoolOnline@sgs.com Web: www.wooltesting.sgs.com

RESULT DEFINITIONS

Mean Fiber Diameter	Micron is the average fibre diameter (μm) of the tested sample
Standard Deviation:	Standard Deviation (SD) is a measure (in microns) of the dispersion of fibre diameters either side of the average fibre diameter, where 66% of the fibre diameters lie
Coefficient of Variation:	Coefficient of Variation of Diameter (CVD) is the standard deviation expressed as a percentage of average fibre diameter
Spin Fineness:	Spin Fineness (SF), is micron and CVD expressed as a single value in microns, to represent spinning quality
Fibers Greater Than 30 microns:	Is the percentage of fibres greater than 30 μm
Comfort Factor:	Comfort Factor (CF) is the percentage of fibres less than 30 μm
Mean Staple Length:	The Staple Length (SL) of the tested sample expressed in millimeters (mm)
Length Standard Deviation:	Standard Deviation (SD) is a measure (mm) of the dispersion of staple lengths either side of the average staple length
Length Coefficient of Variation:	Coefficient of Variation of Length (CVL) is the standard deviation expressed as a percentage of average staple lengths
Mean Curve:	Fibre Curvature (CRV) is the mean curvature of all fibres in a staple. It is related to crimp frequency, and expressed in degrees per millimeter (Dg/mm)
SD Curvature:	The Standard Deviation of the fibre Curvature expressed in degrees (Dg/mm)
Medullated Fibers:	Percentage of medullated fibres against total fibre count