

MAN - ALPACA FIBRE ANALYSIS

Client

Manna-Gum Alpacas
PO Box 31
Marnoo VIC 3387

Date Sample Taken - 31/10/2017

Test No. MNN80475

Contact :- Micron Man

Our Phone (08)94181733

P.O. Box 1423

Bibra Lake W.A. 6965

Group ID. Full Group

Wool Growth - months

Age at Sample Date - months

Name : **MGA ENCHANTING CHARM**

IAR Number : 215350
Micron Deviation : -1.7 μm
>30 : 13.1 %

Micron : 22.9 μm
SD : 6.9 μm
CV : 30.3 %
CE : 7.9 %
SF : 24.4 μm
CF : 86.9 %
CRV : 31.8 Deg/mm
SDC : 25.7 Deg/mm

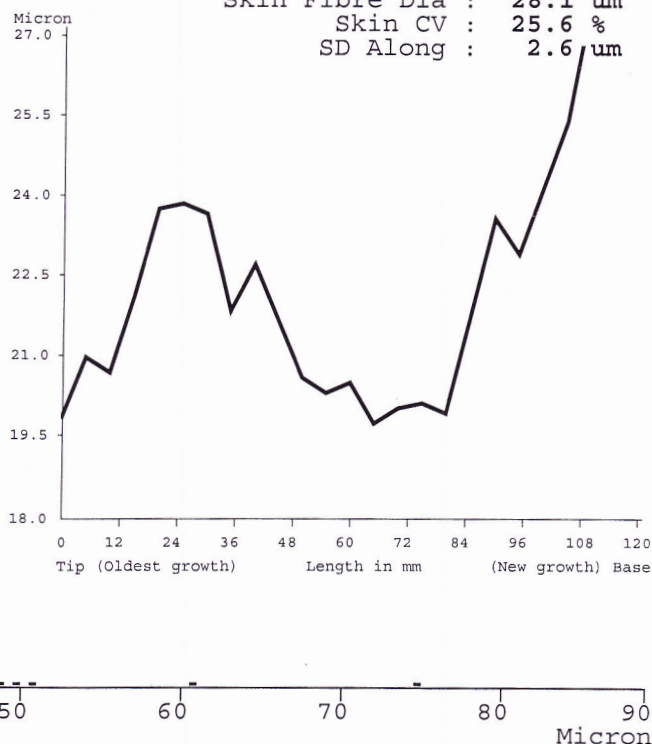
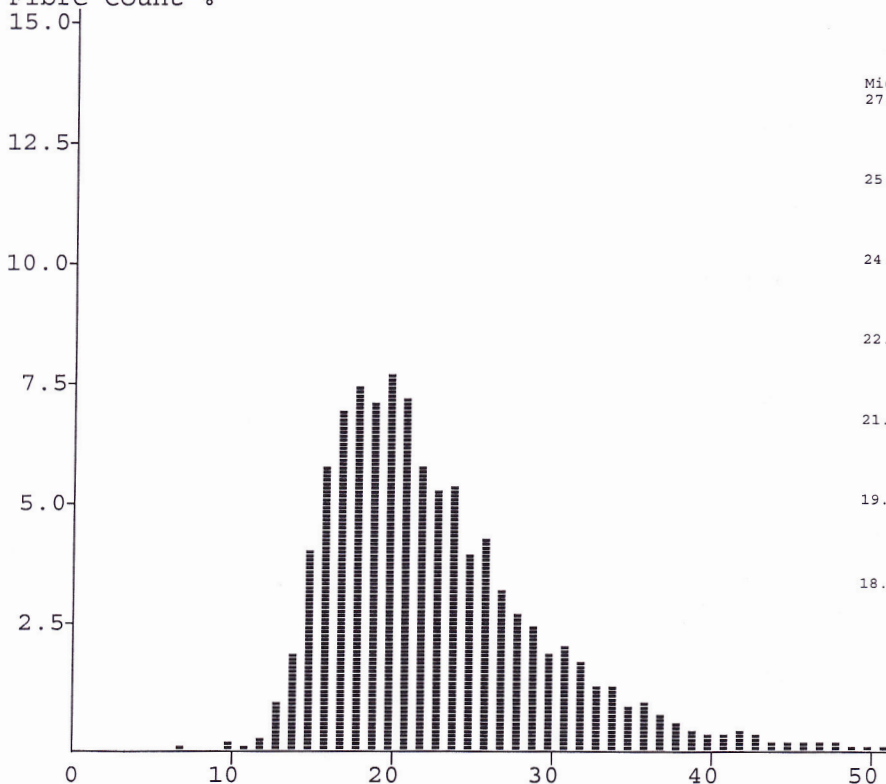
Total Fibres counted : 5310

OFDA2000 Alpaca Calibration : Trim High OFF
GCF @ 20 μm : 0.6 μm

Micron Profile Graph

Staple Length : 125.0 mm
Finest Point From Tip : 65.0 mm
Mean Fibre Ends : 24.4 μm
Minimum Fibre Dia : 20.0 μm
Maximum Fibre Dia : 28.7 μm
Skin Fibre Dia : 28.1 μm
Skin CV : 25.6 %
SD Along : 2.6 μm

Fibre Count %



EXPLANATION OF TERMS

- FD : Overall average Fibre Diameter measured in micron (μm).
- SD : Standard Deviation, measures the distance either side of the average fibre diameter where approx 2/3 of the fibre diameters lie.
- CV : Coefficient of Variation = SD as a percentage of the average micron
- CE : Coarse Edge. The percentage of fibres that lie over 10 microns greater than the average fibre diameter.
- CF : Comfort Factor. The percentage of fibres less than 30 microns
- SF : Spinning Fineness. Combine Micron & CV to a single number to represent the spinning quality expressed in microns.
- >30 : The percentage of fibres greater than 30 microns.
- CRV : Fibre Curvature is the average curvature or bending over one millimetre length. It is related to crimp frequency and is measured in degrees per millimetre (Dg/mm).
- SDC : Standard Deviation of Curvature is the variation of curvature for the above measurement. SDC is related to crimp definition and measured in degrees per millimetre (Dg/mm).
- TRIM : If sample is tested with Trim High ON, then the result is trimmed to 4 SD's above average FD. If sample average FD=22 μm and SD=5 μm then Trim High ON = 22+20=44 μm . Measurement above 44 μm is removed. Trim High OFF means no coarse tail trimming on the sample tested that gives a closer result to other instruments.
- GCF : Grease Correction Factor is the FD adjustment needed when measuring greasy Alpaca fibre - @ 20 μm -0.6 μm = 19.4 μm