



MAN - ALPACA FIBRE ANALYSIS

Client

Wangurra Alpacas
220 Schoolhouse Rd
Woori Yallock VIC 3139

Date Sample Taken - 01/11/2020

Test No. SPH01204

Contact :- Micron Mar

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 : **PANACHE**

IAR Number : **166525**
Micron Deviation : **+0.5 mic**
>30 : **5.2 %**

Micron : **21.8 mic**
SD : **4.4 mic**
CV : **20.2 %**
CE : **3.3 %**
SF : **21.1 mic**
CF : **94.8 %**
CRV : **44.7 Deg/mm**
SDC : **34.5 Deg/mm**

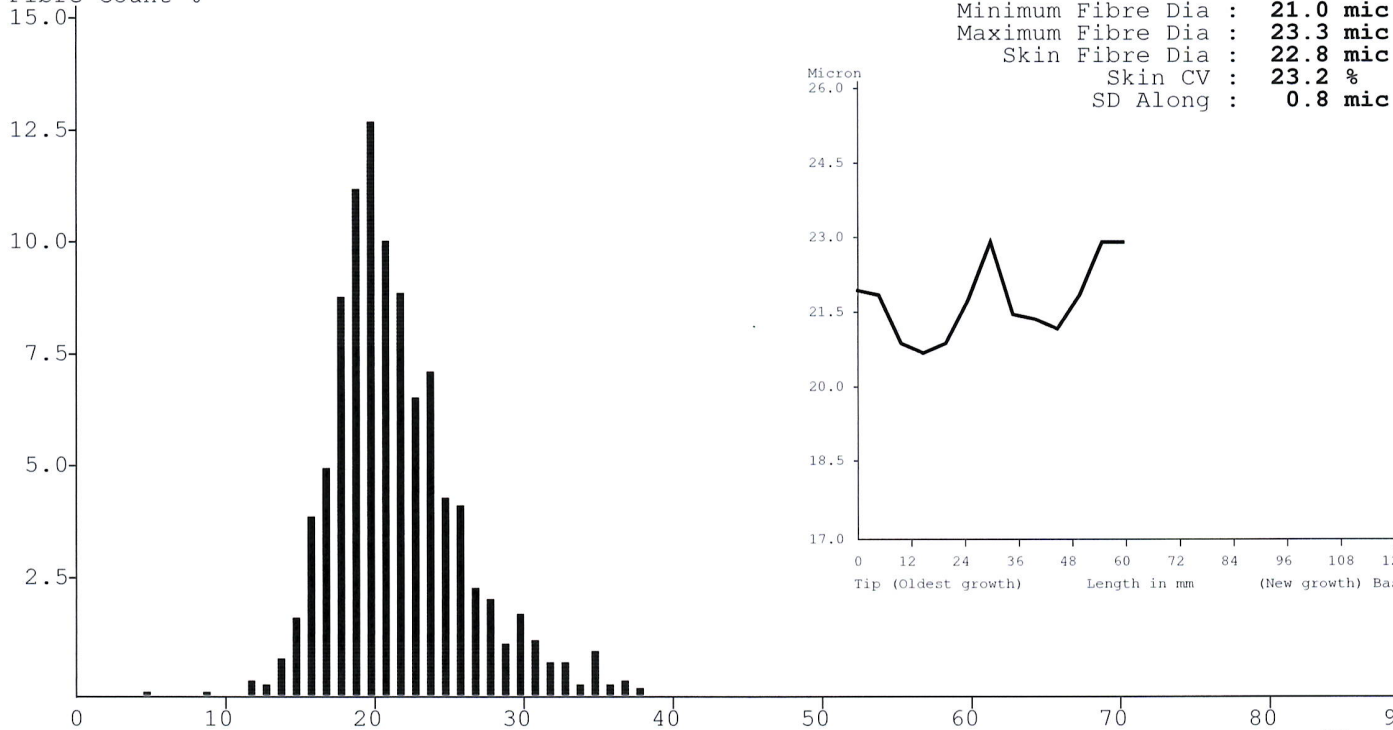
Total Fibres counted : 1550

OFDA2000 Alpaca Calibration : Trim High ON
GCF @ 20 um : 0.6 um

Micron Profile Graph

Staple Length : **60.0 mm**
Finest Point From Tip : **15.0 mm**
Mean Fibre Ends : **22.5 mic**
Minimum Fibre Dia : **21.0 mic**
Maximum Fibre Dia : **23.3 mic**
Skin Fibre Dia : **22.8 mic**
Skin CV : **23.2 %**
SD Along : **0.8 mic**

Fibre Count %



EXPLANATION OF TERMS

- FD : Overall average Fibre Diameter measured in micron.
- 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=22um and SD=5um then Trim High ON = 22+20=44um. Measurement above 44um 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 - @ 20um-0.6um = 19.4um.