

Participant: SUESSEN

Various measuring methods are available to determine yarn hairiness. The G566 hairiness tester of M/s. Zweigle enables the user to detect and sort fibres sticking out in length classes, and consequently is an important instrument to evaluate the so-called short-hairiness (1 mm and 2 mm in length) of a yarn and the long-hairiness (3 mm and more), which is disturbing in subsequent processing steps. This is of utmost importance mainly for a detailed evaluation of compact yarns.

In close cooperation with M/s. SUESSEN, Germany, comprehensive tests have been carried out for quite some time, in the course of which hairiness parameters of EliTe® Compact Yarns, achieved by customers worldwide, have been collected and evaluated under standard conditions. Up to now, solely yarns cops have been checked. These tests will be continued in future.

The three diagrams for hairiness classes S1, S2 and S3 show the current state (October 2004) of the evaluation of combed EliTe® Compact Yarns from 100% cotton. The grey area refers to all data collected, the red limit line (top) corresponding to the highest values, whereas the green line (bottom) corresponds to the lowest values of the relevant yarn counts. The 50% line (black) shows the values determined for half the yarns, and therefore represents the average.

In this data collection those factors influencing yarn hairiness like spindle speed, fibre length, yarn twist or general machine condition have not yet been taken into account.

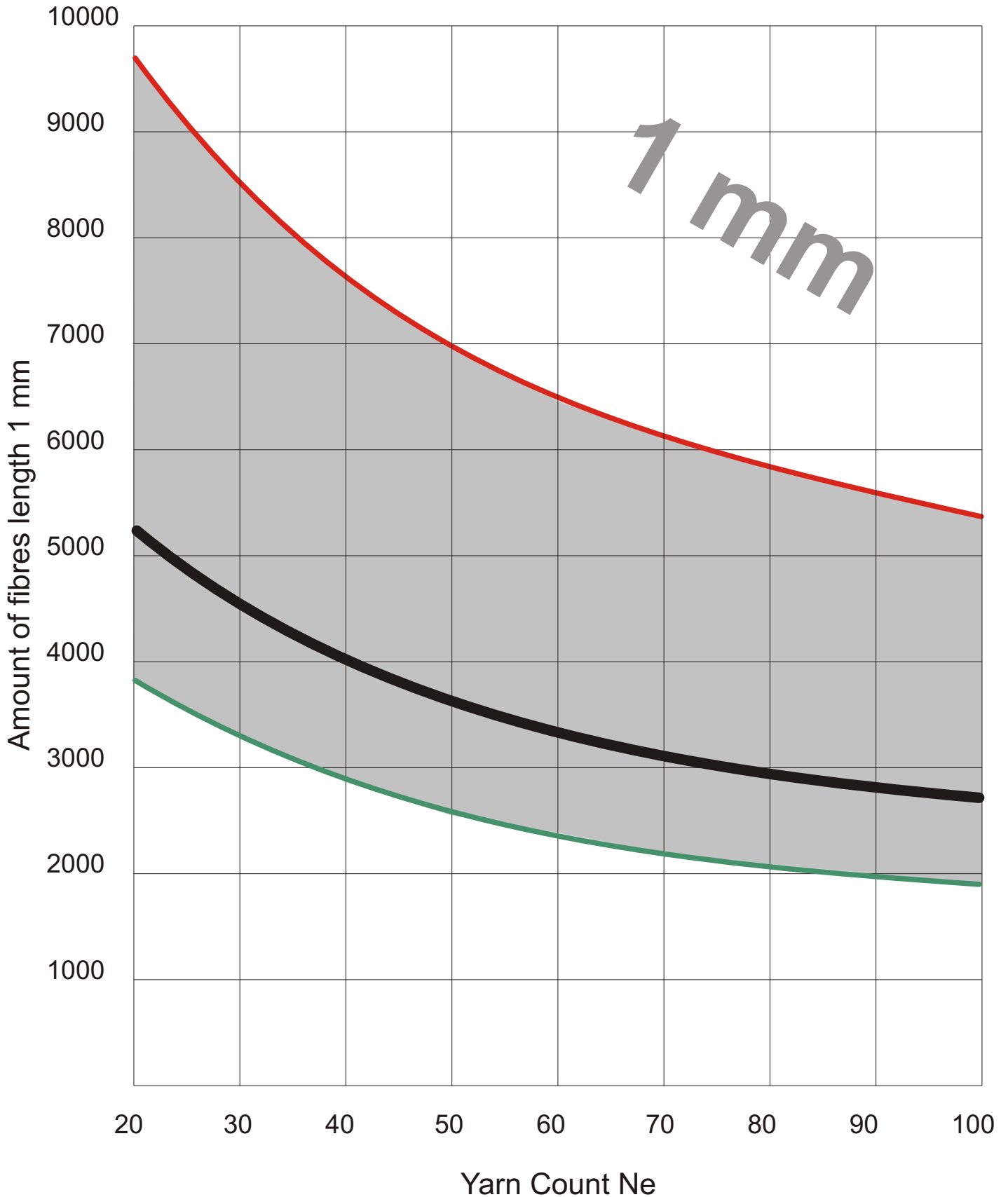
Zweigle Hairiness Standards  
EliTe® Compact Yarn, 100% combed cotton  
Hairiness Length: 1mm



Yarns tested

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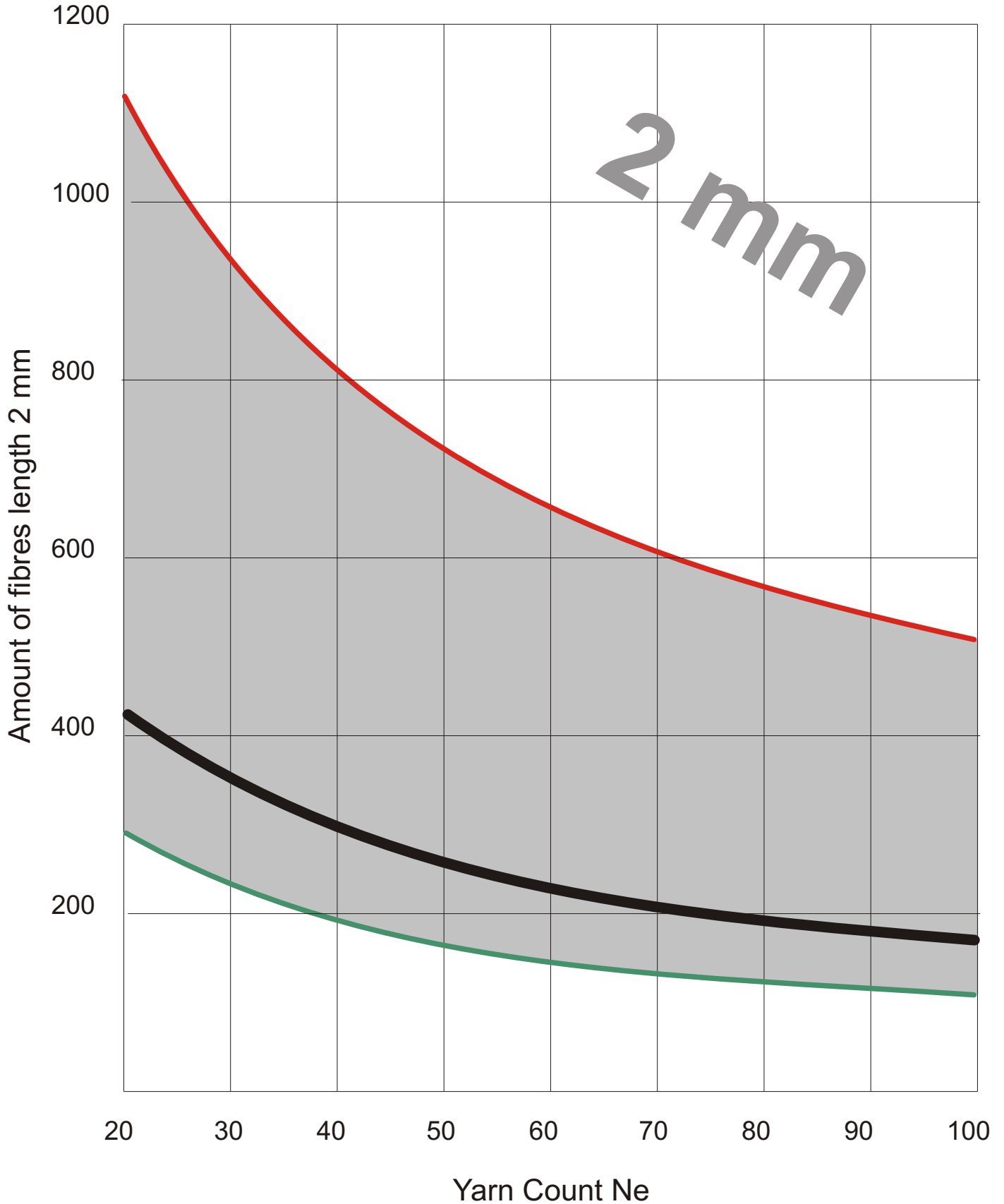
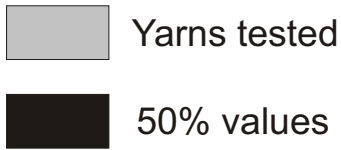
50% values



Zweigle Hairiness Standards  
EliTe® Compact Yarn, 100% combed cotton  
Hairiness Length: 2 mm



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Zweigle Hairiness Standards  
EliTe® Compact Yarn, 100% combed cotton  
Hairiness Length: S3-value ( 3mm)



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Yarns tested

50% values

