



CHINA BAMBRO TEXTILE CO., LTD

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The specification of bamboo yarn

For bamboo yarn, we have three production lines,

1, ring spun yarns, we can produce 100% bamboo from Ne10 to Ne60 and blended yarns with 70%bambo/30cotton% and 50%bamboo50%cotton

2, compact yarns, our current type are Ne16, 21, 32, 40.

3. siro spun yarn, current type are Ne21-Ne60

Here we supply the 100% Ne30/1 bamboo yarn specification to you as reference:

Testing condition:	Temperature : 20°C	Relative humidity: 65%
item	Ne 32/1 100%bamboo siro spun yarn for knitting	
raw material	100% bamboo	
Single strength (cn)	324.2	
RKM(cn/tex)	17.5	
single strength cv%	7.21	
count cv%	1.47	
U	11.82	
thin-50%	2	
thick+50%	7	
NEPS+200%	18	
coefficient of twist	344	
Grade	First grade	

If you want to know other type bamboo yarn specification data, you will send email to: info@bambrotex.com or call me through Skype: bambrotextile

Our recommendations about bamboo yarn

1. In order to show the bamboo characters (for example anti-bacterial properties) we usually recommend our customers when they use bamboo fiber, the bamboo fiber must be lower than 30%.
2. Because the bamboo fiber strength is low, commonly we recommend our customer to use Ne10-40 bamboo yarn, if customer wants to make the textile by Ne50-60, we usually recommend our customers to double the bamboo yarn.

Our recommendation for weaving (reference)

1. To meet weaving requirements on tensile strength and to have excellent efficiency we recommend using bamboo yarn with a twist coefficient in the range of 350 to 410 turns per meter. This ensures to reduce floss on yarn surface and it helps to also improve yarn tensile strength.
2. As bamboo yarn's moisture regain rate and elongation is relatively high, you should maintain even and relatively low tension during the process of warping and sizing of the yarn.
When weaving high-count high-density woven fabrics with fine yarns, we recommend to choose arc process flow in warping, control each section's elongation in sizing, and maintain low tension in both warping and sizing. In this way, it helps avoid broken ends caused by increased elongation in weaving.
3. For single yarn weaving, you should choose a suitable sizing agent. Bamboo fibers are hydrophilic fibers. They are easy to be sized. So it is better to choose denatured starch as the main component of the sizing agent. In order to decrease hairiness, we recommend to choose some acrylic acid as part of the sizing agent rather than PVA. Acrylic acid can improve yarn softness and makes it easy dividing the yarn. Careful: do not add too much acrylic acid as excess of acrylic acid will cause humidity absorbance and viscosity regain.
4. Bamboo fiber is sensitive to moisture regain. We recommend that you keep a medium moisture regain rate. Bamboo fiber is breakable when moisture regain is too low. However bamboo fibers tensile strength also decrease dramatically when moisture regain rate is too high. The suitable moisture regain rate is 8-9%.
Additionally please make sure to maintain a medium speed when sizing.
5. You should maintain lower tensions when weaving. We recommend weaving at relative humidity: 65-75%. You can adopt lower relative humidity when yarn's moisture regain rate is high. Vice versa.

Note: Bamboo yarn tends to elongate, it may cause weft stripiness.

☐ Brief introduction to downstream products

1. for weaving
good drapability, good draping property, soft....
Towel, bath towel, bed textile....
2. for knitting
circular knitting, flat-knitting, rib knitting....
Sock, underwear, sport clothing....
3. nonweaving

Bambrotex is exploiting bigger textile fields....