

THE QUALITY OF FANCY YARN: PART II: PRACTICAL EXPERIMENTS AND APPLICATION

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ABSTRACT

In Part I of this paper the author presented and detailed the methods he suggested to account for the subject of quality of fancy yarn. These include all factors and concepts which should be used to account for the structure of various types of fancy yarn. In addition, the procedures and apparatus needed to apply these methods were detailed. In Part II, however the author applied his method to deal with gimp yarn and bouclé yarn which are traditional two types of fancy yarn. A comparison between these methods and the traditional subjective method of quality assessments of fancy yarns revealed high levels of agreement. The author produced several different gimp yarns and bouclé yarns and then used the Shape Factor of Fancy Yarn (ShF), the Relative Shape of Fancy Yarn (RSI) and Circularity Ratio of Fancy Profile (CR) to scientifically and objectively judge the quality of several gimp yarns and bouclé yarns. In the end, it was possible to arrange these yarns in ascending or descending order in terms of their quality, e.g. texture, structure, and fancy bulkiness.

KEYWORDS: Overfed Fancy Yarn, Gimp Yarn, Bouclé Yarn, The Shape Factor of Fancy Yarn, The Relative Shape Index of Fancy Yarn, Area of Fancy Profile or Projection, Number of Fancy Projection, The Circularity Ratio of Fancy Profile