

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

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ABSTRACT

The concepts, parameters of assessing the structure, appearance and quality of several types of fancy yarn were presented in Part I of this paper. Further, the methods, procedures and apparatus needed to apply such concepts and parameters were also detailed in Part I. In Part II of this paper, however, those methods were applied to account for the structure and quality of several overfed fancy yarns, gimp yarns and bouclé yarns. The Area of Fancy Profile, the Number of Fancy Profiles, the Shape Factor of Fancy Yarn (ShF), the Relative Shape of Fancy Yarn (RSI) and Circularity Ratio of Fancy Profile (CR) were used to account for those types of fancy yarn. Based on those methods, it was possible to assess the structure and quality of the fancy yarns and to arrange them in ascending (or descending) order in terms of their quality, e.g. texture, structure, and fancy bulkiness. Further, a comparison between those methods and the traditional subjective method of quality assessments of fancy yarns revealed high levels of agreement.

KEYWORDS: Overfed Fancy Yarn, Gimp Yarn, Bouclé Yarn, the Shape Factor of Fancy Yarn, the Relative Shape Index of Fancy Yarn, the Area of Fancy Profile, the Number of Fancy Profiles, the Circularity Ratio of Fancy Profile.