ISO 20706-1:2019-12 (E)

Textiles - Qualitative and quantitative ana lysis of some bast fibres (flax, hemp, ramie) and their blends - Part 1: Fibre i dentification using microscopy methods

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 2

5 Apparatus 2

6 Reagents 3

7 Sampling 3
7.1 Laboratory sample 3
7.2 Preparation of the test specimens 3
7.2.1 Selection of the test specimens 3
7.2.2 Preparation of a test specimen 3

8 Procedure 3
8.1 General 4
8.2 LM procedure 7
8.2.1 Longitudinal view 7
8.2.2 Cross view 7
8.3 SEM procedure 7
8.3.1 Cross view 7

9 Test report 7

Annex A (informative) Photomicrographs of flax (Light microscopy and SEM) 8

Annex B (informative) Photomicrographs of hemp (Light microscopy and SEM) 12

Annex C (informative) Photomicrographs of ramie (Light microscopy and SEM) 15

Annex D (informative) Rationale 18

Annex E (normative) Polarized light test to distinguish flax and hemp 20

Annex F (normative) Twisting direction test to distinguish flax and hemp 23

Annex G (informative) Decoloration 24

Annex H (normative) Sampling of the laboratory sample 25

Bibliography 27