

# ISO 1833-1:2020 (E)

## Textiles — Quantitative chemical analysis — Part 1: General principles of testing

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Reagents
6	Apparatus
7	Conditioning and testing atmosphere
8	Sampling and pre-treatment of laboratory test sample
8.1	Sampling
8.2	Pre-treatment of laboratory test sample
9	Procedure
9.1	General instructions
9.1.1	Handling
9.1.2	Drying
9.1.3	Drying of test specimens
9.1.4	Drying of crucible and residue
9.1.5	Cooling
9.1.6	Weighing
9.2	Testing execution
10	Calculation and expression of results
11	Precision of the methods
12	Test report
Annex A	(normative) Methods for the removal of non-fibrous matter
A.1	General
A.2	Overview
A.3	Principle
A.4	Apparatus
A.5	Procedures
A.5.1	Oils, fats and waxes
A.5.1.1	Oils, fats and waxes using light petroleum
A.5.1.2	Oils, fats and waxes using soap and water
A.5.1.3	Oils, fats and waxes using acetone
A.5.1.4	Oils, fats and waxes using light petroleum and then sodium hydroxide solution
A.5.2	Soaking oils using a mixture of toluene and methanol
A.5.3	Starch
A.5.4	Locust-bean gum and starch
A.5.5	Tamarind seed size

- A.5.6 Acrylic size
- A.5.7 Gelatine and polyvinyl alcohol
- A.5.8 Starch and polyvinyl alcohol
- A.5.9 Polyvinyl acetate
- A.5.10 Linseed oil sizes
- A.5.11 Amino-formaldehyde resins
- A.5.12 Bitumen, creosote and tar
- A.5.13 Cellulose ethers
  - A.5.13.1 Methyl cellulose soluble in cold water
  - A.5.13.2 Cellulose ethers insoluble in water but soluble in alkali
- A.5.14 Cellulose nitrate
- A.5.15 Polyvinyl chloride
- A.5.16 Oleates
- A.5.17 Oxides of chromium, iron and copper
- A.5.18 Pentachlorophenyl laurate (PCPL)
- A.5.19 Polyethylenes
- A.5.20 Polyurethanes
- A.5.21 Natural rubbers, and styrene-butadiene, polychloroprene, nitrile and most other synthetic rubbers
- A.5.22 Silicones
- A.5.23 Tin weighting
- A.5.24 Wax-based waterproof finishes
- A.5.25 Non-cellulosic components of bast fibres

**Annex B (normative) Method of quantitative analysis by manual separation**

- B.1 General
- B.2 Principle
- B.3 Apparatus
- B.4 Reagents
- B.5 Conditioning and testing atmosphere
- B.6 Laboratory test sample
- B.7 Pre-treatment of laboratory test sample
- B.8 Procedure
  - B.8.1 Analysis of yarn
  - B.8.2 Analysis of fabric
- B.9 Calculation and expression of results
  - B.9.1 General
  - B.9.2 Calculation of percentage masses of clean, dry fibre
  - B.9.3 Calculation of the mass percentage of each component
- B.10 Precision of the methods
- B.11 Test report