

ISO/TS 23361:2024-10 (E)

Nanotechnologies - Crystallinity of cellulose nanomaterials by powder X-ray diffraction (Rietveld analysis)

Contents	Page
Foreword.....	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
3.1 Core nanotechnology terms related to cellulose nanomaterials.....	1
3.2 Non-nanotechnology terms related to cellulose nanomaterials.....	2
3.3 Terms specific to cellulose nanomaterials.....	2
4 Principle	4
5 Sample preparation	5
5.1 General considerations.....	5
5.2 Preparation of samples from powders.....	5
6 Instrument and software requirements	6
6.1 Diffractometer.....	6
6.2 Software.....	6
6.3 Crystallographic information files.....	6
7 Data collection	6
8 Data processing and analysis	7
8.1 General considerations.....	7
8.2 Modelling procedure.....	8
9 Uncertainty	10
10 Test report	11
Annex A (informative) Results of interlaboratory comparison	12
Bibliography	21