

Leather - Measurement of leather surface - Electronic techniques

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus and materials	2
5.1 Measuring machines	2
5.1.1 General	2
5.1.2 Measuring machine types with linear sensor array (types A, B and C)	2
5.1.3 Type A roller measuring machine	3
5.1.4 Roller measuring machine with transport roller (type A1)	3
5.1.5 Roller measuring machine with transport conveyor (type A2)	3
5.1.6 Conveyor measuring machine (type B)	4
5.1.7 Standard conveyor measuring machine (type B1)	4
5.1.8 Vacuum tape conveyor measuring machine (type B2)	4
5.1.9 Flatbed scanning machines (type C)	4
5.1.10 Camera measuring machine (type D)	5
5.2 Reference calibrated templates for machine verification	5
6 Sampling and conditioning	5
7 General measurement criteria	6
7.1 General requirement	6
7.2 Leather orientation during measurement	6
7.2.1 General	6
7.2.2 Measuring whole leather pieces	6
7.2.3 Measuring half-leather pieces	6
7.2.4 Measuring leather cut pieces	7
7.3 Measurement operations	7
7.3.1 Roller machines	7
7.3.2 Conveyor machines	7
7.3.3 Flatbed scanner machines and bi-dimensional static measuring devices	8
8 Measurement procedure	8
9 Calculation and expression of results	9
10 Test report	9
Annex A (normative) Manufacturing characteristics of calibrated templates for the verification of electronic measuring machines	11
Annex B (normative) Procedure for the verification of a measuring machine by calibrated templates	13
Annex C (normative) Laboratory record of calibrated templates	15
Annex D (informative) Repeatability and reproducibility	16
Annex E (informative) Pickled and wet leather conditioning before testing	18
Bibliography	19