

# ISO 2971:2013-04 (E)

## Cigarettes and filter rods - Determination of nominal diameter - Method using a non-contact optical measuring apparatus

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	2
5	Apparatus .....	2
6	Sampling .....	3
7	Procedure .....	3
7.1	Preparation of test pieces .....	3
7.2	Adjustment and calibration .....	4
7.3	Measurement .....	4
8	Expression of results .....	4
9	Repeatability and reproducibility .....	5
10	Test report .....	5
Annex A (normative) Calibration standards .....		7
Annex B (informative) Measurement principle and required number of scans .....		8
Annex C (informative) Information on possible source of measurement error .....		10
Annex D (informative) Non-contact measurement techniques .....		12
Annex E (informative) Alternative measurement techniques for the determination of nominal diameter of cigarettes and filter rods .....		15
Annex F (informative) Protocol for ISO/TC 126/SC 1/WG 2 interlaboratory diameter measurement uncertainty study .....		17