

# ISO 15790:2004-01 (E)

**Graphic technology and photography - Certified reference materials for reflection and transmission metrology - Documentation and procedures for use, including determination of combined standard uncertainty**

---

## Contents

	Page
Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms, definitions and symbols .....	1
3.1 Terms and definitions .....	1
3.2 Symbols .....	4
4 General guidelines for CRM application .....	4
5 Required documentation for CRMs .....	5
5.1 Identification of CRM .....	5
5.2 Reporting of CRM reference values .....	5
5.3 Traceability .....	5
5.4 Cautions for use .....	5
5.5 Care and handling of CRMs .....	6
5.6 Use and procedures .....	6
6 Procedures related to the use of CRMs .....	6
6.1 Determination of combined standard uncertainty .....	6
6.2 Computation of expanded uncertainty .....	9
6.3 Calibration of a measurement system .....	9
7 Reporting measurement results and their uncertainty .....	10
Annex A (informative) Characteristics of CRMs .....	12
Annex B (informative) Example of computation of combined standard uncertainty (with component sensitivities equally weighted) .....	13
Annex C (informative) Examples of computation of combined standard uncertainty (including weighting of component sensitivities) .....	15
Bibliography .....	19