

ISO 4518:2021 (E)

Metallic coatings — Measurement of coating thickness — Profilometric method

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Instrumentation — Operational parameters and measurement characteristics
5.1	Types of profile recording instruments
5.2	Stylus instruments
5.3	Inductive measuring probes or displacement sensors
5.4	Optical profilometers
6	Factors relating to accuracy
6.1	Profile record
6.2	Vertical magnification (only for instruments with chart recorders)
6.3	Graphical measurements
6.4	Applied force (only for profilometers with stylus)
6.5	Stylus diameter and surface roughness
6.6	Surface roughness
6.7	Vibrations
6.8	Surface curvature
6.9	Cleanliness
6.10	Temperature
6.11	Step configuration
6.12	Datum reference (only for profilometers with stylus)
6.13	Calibration
7	Calibration
8	Measuring procedure
8.1	Preparation of step
8.2	Recording of profiles
8.3	Measurement of thickness
8.4	Measurement accuracy
9	Test report