

ISO 19403-2:2017-06 (E)

Paints and varnishes - Wettability - Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Apparatus and materials	2
6	Sampling	3
7	Procedure	4
7.1	General for measuring on the horizontal drop	4
7.1.1	Setting up the contact angle measuring system	4
7.1.2	Test conditions	4
7.1.3	Conditioning of the test panels	4
7.2	Measurement	4
7.2.1	General	4
7.2.2	Static method	4
7.2.3	Dynamic method (progressive contact angle)	5
7.2.4	Determination of the contact angle	6
8	Evaluation	6
8.1	General	6
8.2	Owens-Wendt-Rabel-Kaelble method (OWRK method)	6
8.3	Wu method	7
9	Precision	8
9.1	General	8
9.2	Repeatability limit, r	8
9.3	Reproducibility limit, R	8
9.4	Calculation in accordance with Owens-Wendt-Rabel-Kaelble method (OWRK method)	8
10	Test report	9
Annex A (informative) Notes on measuring practice		10
Bibliography		14