DIN EN ISO 19403-5:2025-01 (E)

Paints and varnishes - Wettability - Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy (ISO 19403-5:2024)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **5**

4 Principle ... **6**

5 Reference solid ... **6**

6 Sampling ... **6**

7 Procedure ... **6**

7.1 Test conditions ... 6

7.2 Determination of the surface tension of the liquid to be tested ... 6

7.3 Determination of the surface free energy of the reference solid ... 6

7.4 Determination of the contact angle of the liquid to be tested on the reference solid ... 7

8 Evaluation ... **7**

8.1 General ... 7

8.2 Owens-Wendt-Rabel-Kaelble method (OWRK method) ... 7

8.3 Wu method ... 7

8.4 Calculation of the polar fraction of the surface tension of the liquid ... 8

9 Test report ... **8**

Bibliography ... **10**