

ISO 19403-5:2024-10 (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

Contents

Page

Foreword.....iv

1 Scope.....1

2 Normative references.....1

3 Terms and definitions.....1

4 Principle.....2

5 Reference solid.....2

6 Sampling.....2

7 Procedure.....2

 7.1 Test conditions.....2

 7.2 Determination of the surface tension of the liquid to be tested.....2

 7.3 Determination of the surface free energy of the reference solid.....2

 7.4 Determination of the contact angle of the liquid to be tested on the reference solid.....3

8 Evaluation.....3

 8.1 General.....3

 8.2 Owens-Wendt-Rabel-Kaelble method (OWRK method).....3

 8.3 Wu method.....3

 8.4 Calculation of the polar fraction of the surface tension of the liquid.....4

9 Test report.....4

Bibliography.....6