

# 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