

ISO/TS 19397:2015-12 (E)

Determination of the film thickness of coatings using an ultrasonic gage

| Contents | Page |
|---|-----------|
| Foreword | iv |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Principle | 3 |
| 5 Physical principles of the measuring method and of the application | 3 |
| 6 Apparatus and materials | 5 |
| 6.1 Ultrasonic film thickness measuring device | 5 |
| 6.2 Couplant | 5 |
| 6.3 Calibration standards | 5 |
| 7 Calibration, adjustment and checking of the measuring device | 6 |
| 7.1 Calibration | 6 |
| 7.2 Adjustment | 6 |
| 7.3 Checking the adjustment | 6 |
| 8 Procedure of measurement | 6 |
| 9 Temperature influence during the measurement | 6 |
| 10 Precision | 7 |
| 10.1 General | 7 |
| 10.2 Repeatability limit | 7 |
| 10.3 Reproducibility limit | 8 |
| 11 Test report | 9 |
| Annex A (informative) Qualification of the personnel | 10 |
| Annex B (informative) Determination of precision | 11 |
| Bibliography | 17 |