

# ISO 20615:2018 (E)

## Fibre ropes — Electrostatic surface potential measuring method

---

### Contents

|         |                                                             |
|---------|-------------------------------------------------------------|
|         | Foreword                                                    |
|         | Introduction                                                |
| 1       | Scope                                                       |
| 2       | Normative references                                        |
| 3       | Terms and definitions                                       |
| 4       | Principle                                                   |
| 5       | Test atmosphere                                             |
| 6       | Apparatus                                                   |
| 7       | Preparation of specimens                                    |
| 7.1     | Specimen diameter                                           |
| 7.2     | Cutting                                                     |
| 7.3     | Splicing rope specimen                                      |
| 7.4     | Conditioning of specimen                                    |
| 8       | Testing procedure                                           |
| 8.1     | Rope specimen setting                                       |
| 8.2     | Measurement of surface potential generated by tribocharging |
| 9       | Test report                                                 |
| Annex A | (normative) Verification procedure and correction factor    |
| A.1     | Tools                                                       |
| A.2     | Verification procedure                                      |
| A.3     | Correction factor                                           |
| A.4     | Example of correction factors                               |
| A.5     | Alternative verification procedure                          |
| Annex B | (informative) Example of test results                       |
| B.1     | Fibre rope sample preparation                               |
| B.2     | Test condition                                              |
| B.3     | Test result                                                 |
| Annex C | (informative) Information on the effect of parameters       |
| C.1     | General                                                     |
| C.2     | Sample preparation                                          |
| C.3     | Test condition                                              |
| C.4     | Test result                                                 |
| Annex D | (informative) Interlaboratory test                          |
| D.1     | General                                                     |
| D.1.1   | Sample preparation                                          |
| D.1.2   | Testing laboratories                                        |
| D.1.3   | Test apparatus                                              |
| D.1.4   | Material of friction cylinder                               |
| D.1.5   | Testing condition                                           |
| D.2     | Sample preparation                                          |
| D.3     | Conditioning and test condition                             |
| D.4     | Test result                                                 |