

DIN EN ISO 18861:2022-02 (E)

Cosmetics - Sun protection test methods - Percentage of water resistance (ISO 18861:2020)

| Contents | | Page |
|--|---|-------------|
| European foreword | | 3 |
| Foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Test method | 7 |
| 4.1 | Outline of the method..... | 7 |
| 4.2 | Test subject selection..... | 7 |
| 4.3 | Test area..... | 7 |
| 4.4 | Product application..... | 7 |
| 4.5 | Water immersion procedure..... | 7 |
| 4.6 | Reference water resistant sun product..... | 8 |
| 4.7 | Determination of the minimum erythematous dose (MED)..... | 8 |
| 4.8 | Number of test subjects..... | 8 |
| 4.9 | Test chronology..... | 8 |
| 5 | Calculations and data handling | 8 |
| 5.1 | General..... | 8 |
| 5.2 | SPF before immersion..... | 8 |
| 5.3 | SPF after immersion..... | 9 |
| 5.4 | Individual percentage of water resistance..... | 9 |
| 5.5 | Mean percentage of water resistance..... | 9 |
| 5.6 | Calculation of lower confidence limit on the mean percentage of water resistance..... | 9 |
| 5.7 | Acceptance criteria for reference product P2..... | 10 |
| 6 | Test report | 10 |
| Annex A (normative) Simulated swim test device design | | 11 |
| Annex B (normative) Test procedure and chronology | | 12 |
| Annex C (normative) Standard reference sunscreen | | 15 |
| Bibliography | | 16 |