DIN EN ISO 21853:2020-06 (E)

Kite boarding - Release system - Safety requirements and test methods (ISO 21853:2020)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Safety requirements ... **7**
- 4.1 General ... 7
- 4.2 Strength ... 7
- 4.3 Design ... 7
- 4.4 Handling ... 8
  - 4.4.1 General ... 8
  - 4.4.2 Triggering force ... 8
  - 4.4.3 Release force ... 8
  - 4.4.4 Duration of release ... 8
  - 4.4.5 Reachability ... 9
- 4.5 Behaviour during release ... 9
- 4.6 Additional requirements for cold and wet conditions ... 9
- 4.7 Information supplied by the manufacturer ... 9
  - 4.7.1 User's manual ... 9
  - 4.7.2 Marking on the product ... 10

5 Test methods ... **10**
- 5.1 Test apparatus ... 10
- 5.2 Test environment ... 11
  - 5.2.1 Dry and clean conditions ... 11
  - 5.2.2 Sand ... 11
- 5.3 Test conditions ... 11
  - 5.3.1 Dry and clean conditions ... 11
  - 5.3.2 Dry sand ... 11
  - 5.3.3 Water with sand ... 12
  - 5.3.4 Cold and wet conditions ... 12
- 5.4 Sampling ... 13
- 5.5 Preparation ... 13
  - 5.5.1 General function ... 13
  - 5.5.2 Releasing without generated load ... 13
  - 5.5.3 Pre-stress ... 13
- 5.6 Procedure ... 13
  - 5.6.1 General ... 13
  - 5.6.2 Strength test ... 16
  - 5.6.3 Dry and clean conditions ... 16
  - 5.6.4 Dry sand ... 17
  - 5.6.5 Water with sand ... 17
  - 5.6.6 Cold and wet conditions ... 17
- 5.7 Sharp edges ... 17
- 5.8 Durability of marking ... 17

6 Test report ... **17**

Annex A (informative) **Test overview** ... **18**