

# E DIN EN 4863:2021-12 (E)

Erscheinungsdatum: 2021-11-05

Aerospace series - Rotorcraft immersion suits - Requirements, testing and marking;  
English version prEN 4863:2021

---

## Contents

Page

European foreword .....	3
Introduction.....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions.....	7
4 Classification .....	11
5 Requirements.....	11
5.1 General .....	11
5.2 Design .....	11
5.3 Size and fit .....	12
5.4 Materials and components.....	12
5.5 Resistance to temperature variation.....	15
5.6 Flammability .....	15
5.7 Wear and tear .....	15
5.8 Conspicuity.....	15
5.9 EBS .....	18
5.10 Other optional accessories.....	18
5.11 Ergonomic performance .....	19
5.12 Additional requirements for integrated immersion suits.....	21
5.13 Immersion suit system performance and compatibility requirements .....	26
6 Testing .....	29
6.1 Visual inspection.....	29
6.2 Nominal values and tolerances.....	29
6.3 Order of testing .....	29
6.4 Fuel resistance of materials and components.....	29
6.5 Magnetic properties testing.....	29
6.6 Temperature cycling .....	30
6.7 Flammability test.....	30
6.8 Wear and tear .....	31
6.9 Retroreflective material application.....	33
6.10 Ergonomic performance .....	33
6.11 Additional tests for integrated immersion suits .....	45
6.12 Immersion suit system performance and compatibility.....	47
6.13 Crew equipment compatibility .....	48
6.14 Reporting.....	50
7 Marking .....	50
8 Information supplied by the manufacturer .....	51
Annex A (informative) Guidelines for manufacturers and users relating to the different categories of immersion suit.....	53
A.1 General .....	53
A.2 Operational application of immersion suit categories.....	53
Bibliography .....	56