

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