ISO 1825:2017-11 (E)

Rubber hoses and hose assemblies for aircraft ground fuelling and defuelling - Specification

Contents

Page

Foreword v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Classification 2

5 Service reeling diameter 2

6 Material and construction 3
6.1 Hoses 3
6.2 Hose assemblies 3

7 Dimensions and tolerances 3
7.1 Internal diameters 3
7.2 Thickness 4
7.3 Concentricity 4
7.4 Tolerances on length 4
7.5 Mass per unit length of hose 4

8 Physical properties 5
8.1 Rubber compounds 5
8.2 Finished hoses and hose assemblies 5

9 Electrical properties 7
9.1 Type B and type E (electrically bonded) 7
9.2 Type C and type F (electrically conductive incorporating a semi-conductive cover compound) 7

10 Frequency of testing 7

11 Marking 8
11.1 Hoses 8
11.2 Hose assemblies 8

12 Test certificate or test report 8

13 Cleanliness 9

14 Protection for dispatch and storage 9

Annex A (normative) Method for determination of fuel-soluble matter 10

Annex B (normative) Method of test for cold embrittlement 11

Annex C (normative) Method for determination of adhesion between components 12

Annex D (normative) Method for determination of resistance to fuel contamination 13

Annex E (normative) Method of test for flexibility at 20 °C 14

Annex F (normative) Method of test for flexibility at -30 °C 15

Annex G (normative) Method of test for crush recovery 16

Annex H (normative) Method for determination of cyclic kinking resistance 17

Annex I (normative) Flammability test 18

Annex J (normative) Hydrostatic test 20

Annex K (normative) Method of test for vacuum resistance 21

Annex L (normative) Method of test for security of attachment of couplings 22

Annex M (normative) Type test and routine test 23

Annex N (informative) Recommended tests for production acceptance test 24

Annex O (informative) Recommendations practice for hose flushing and handling 25

Bibliography 27