DIN EN ISO 11990:2018-12 (E)

Lasers and laser-related equipment - Determination of laser resistance of tracheal tube shaft and tracheal cuffs (ISO 11990:2018)

Contents

Page

European foreword ... **3**

Annex ZA (informative) **Relationship between this European standard and the essential requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered** ... **4**

Foreword ... **6**

Introduction ... **7**

1 Scope ... **8**

2 Normative references ... **8**

3 Terms and definitions ... **8**

4 Principle ... **10**

5 Significance and use of the test ... **10**

6 Apparatus ... **11**
6.1 General ... 11
6.2 Containment box ... 11
6.3 Specimen holder ... 12
6.4 Lasers and delivery systems ... 13
6.5 Power meter ... 13
6.6 Gas supply system ... 13
6.7 Environment ... 13
6.7.1 Ambient air conditions ... 13
6.7.2 Oxygen enriched atmospheres ... 14
6.8 Smoke evacuation device ... 14

7 Reagents and materials ... **14**

8 Preparation of test specimens ... **14**

9 Preparation of apparatus ... **15**

10 Test methods ... **15**
10.1 General conditions ... 15
10.2 Shaft ... 15
10.3 Cuff ... 16

11 Interpretation of results ... **17**

12 Test report ... **17**

Bibliography ... **19**