DIN EN ISO 7886-2:2020-10 (E)

Sterile hypodermic syringes for single use - Part 2: Syringes for use with power-driven syringe pumps (ISO 7886-2:2020)

Contents

Page

European foreword ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **8**

2 Normative references ... **8**

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

4 Nomenclature ... **8**

5 General requirements ... **9**

6 Limits for acidity or alkalinity ... **9**

7 Limits for extractable metals ... **9**

8 Lubricant ... **9**

9 Tolerance on graduated capacity ... **9**

10 Graduated scale ... **9**

11 Syringe design ... **9**

12 Piston/plunger assembly ... **11**
12.1 Design ... 11
12.2 Fit of plunger stopper/plunger in barrel ... 11

13 Nozzle ... **11**
13.1 Conical fitting ... 11
13.2 Nozzle lumen ... 11

14 Performance ... **11**
14.1 Dead space ... 11
14.2 Freedom from air and liquid leakage past the plunger stopper ... 11
14.3 Short-term flow rate error ... 11
14.4 Pump forces ... 12
14.5 Syringe compliance ... 12

15 Packaging ... **13**
15.1 Unit packaging and self-contained syringe units ... 13
15.1.1 Unit packaging ... 13
15.1.2 Self-contained syringe units ... 13
15.2 Multiple unit pack ... 13
15.3 User packaging ... 13

16 Information supplied by the manufacturer **13**
16.1 General 13
16.2 Syringes 13
16.2.1 General 13
16.2.2 Additional marking for self-contained syringe units 14
16.3 Unit packaging 14
16.4 Multiple unit packs 14
16.4.1 General 14
16.4.2 Multiple unit packs with self-contained syringes 14
16.5 User packaging 14
16.6 Storage container 14
16.7 Transport wrapping 14
Annex A (normative) **Short-term flow rate accuracy** **15**
Annex B (informative) **Pump force** **20**
Annex C (normative) **Determination of syringe compliance** **22**
Bibliography **24**