

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 |