

### Contents

|         |                                                     |
|---------|-----------------------------------------------------|
|         | Foreword                                            |
|         | Introduction                                        |
| 1       | Scope                                               |
| 2       | Normative references                                |
| 3       | Terms and definitions                               |
| 4       | Requirements                                        |
| 4.1     | Safety                                              |
| 4.1.1   | Electrical                                          |
| 4.1.2   | Mechanical                                          |
| 4.2     | Stability                                           |
| 4.3     | Sound pressure                                      |
| 4.4     | Frequency                                           |
| 4.4.1   | General                                             |
| 4.4.2   | Variable-power machines                             |
| 4.5     | Amplitude                                           |
| 4.6     | Mixing time                                         |
| 4.6.1   | Timing device                                       |
| 4.6.2   | Timing settings                                     |
| 4.7     | Coherence time                                      |
| 4.8     | Long-term test                                      |
| 5       | Sampling                                            |
| 5.1     | Mixing machine                                      |
| 5.2     | Mixing-capsules                                     |
| 5.2.1   | General                                             |
| 5.2.2   | Mixing-capsule selection                            |
| 5.2.2.1 | Principle                                           |
| 5.2.2.2 | Procedure                                           |
| 5.2.2.3 | Selection criteria                                  |
| 5.3     | Test components                                     |
| 6       | Measurement and test methods                        |
| 6.1     | Test conditions                                     |
| 6.1.1   | General                                             |
| 6.1.2   | Reference charge mass, $m_{ref}$                    |
| 6.1.3   | Minimum charge mass, $m_{min}$                      |
| 6.1.4   | Maximum charge mass, $m_{max}$                      |
| 6.1.5   | Maximum running duration, $t_{max}$                 |
| 6.1.6   | Power supply conditions and apparatus               |
| 6.1.7   | Equipment setup                                     |
| 6.2     | Visual inspection                                   |
| 6.3     | Sound pressure                                      |
| 6.3.1   | Apparatus and setup                                 |
| 6.3.2   | Procedure                                           |
| 6.3.3   | Variable-power machines                             |
| 6.4     | Frequency tests                                     |
| 6.4.1   | Measurement of mixing-capsule oscillation frequency |
| 6.4.1.1 | Apparatus                                           |
| 6.4.1.2 | Procedure for fixed frequency mixing-machines       |
| 6.4.1.3 | Procedure for variable-power mixing-machines        |

|         |                                 |
|---------|---------------------------------|
| 6.5     | Working length                  |
| 6.5.1   | Principle                       |
| 6.5.2   | Apparatus                       |
| 6.5.3   | Procedure                       |
| 6.6     | Amplitude                       |
| 6.6.1   | Apparatus                       |
| 6.6.2   | Procedure                       |
| 6.7     | Mixing time                     |
| 6.7.1   | Apparatus                       |
| 6.7.2   | Procedure                       |
| 6.8     | Coherence time                  |
| 6.8.1   | Apparatus and materials         |
| 6.8.2   | Procedure                       |
| 6.8.2.1 | Setting-up                      |
| 6.8.2.2 | Determination of coherence time |
| 6.9     | Long-term test                  |
| 7       | Instructions for use            |
| 7.1     | General                         |
| 7.2     | Identification                  |
| 7.3     | Safety                          |
| 7.4     | User maintenance                |
| 7.5     | Other maintenance               |
| 7.6     | Mixing-capsule requirements     |
| 7.7     | Mixing-capsule amplitude        |
| 7.8     | Operational limitations         |
| 7.8.1   | Mixing machine limitations      |
| 7.8.2   | Mass and frequency              |
| 8       | Packaging                       |
| 9       | Marking                         |
| 9.1     | On the mixing-machine           |
| 9.2     | On the packaging                |

Page count: 13