

DIN 12880:2007-05 (E)

Electrical laboratory devices - Heating ovens and incubators

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | 3 |
| 1 | Scope | 3 |
| 2 | Normative references | 3 |
| 3 | Terms and definitions | 4 |
| 4 | Dimensions | 5 |
| 5 | Material | 5 |
| 6 | Requirements | 6 |
| 6.1 | Common requirements | 6 |
| 6.2 | Requirements for heating ovens | 7 |
| 6.3 | Requirements for incubators and shaking incubators | 7 |
| 7 | Testing temperatures | 7 |
| 7.1 | General test conditions | 7 |
| 7.2 | Test equipment | 7 |
| 7.3 | Testing for temperature homogeneity and temperature stability | 8 |
| 7.4 | Deviation from set point and actual temperature | 11 |
| 7.5 | Heating and cooling times | 11 |
| 7.6 | Recovery time after door opening | 12 |
| 7.7 | Heat transfer to the environment | 12 |
| 7.8 | Type test report | 12 |
| 8 | Testing of controlled atmospheres in incubators | 12 |
| 8.1 | General test conditions | 12 |
| 8.2 | Test equipment | 13 |
| 8.3 | Measurement of humidity | 13 |
| 8.4 | Measurement of CO ₂ or O ₂ concentrations | 13 |
| 9 | Operating instructions | 13 |
| 9.1 | General | 13 |
| 9.2 | Heating ovens and incubators | 14 |
| 9.3 | Heating ovens | 14 |
| 9.4 | Incubators | 14 |
| 9.5 | Shaking incubators | 14 |
| 10 | Marking | 14 |
| Bibliography | | 16 |