

ISO 1920-11:2013-05 (E)

Testing of concrete - Part 11: Determination of the chloride resistance of concrete, unidirectional diffusion

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 2 |
| 5 | Reagents and apparatus | 3 |
| 5.1 | Reagents | 3 |
| 5.2 | Apparatus | 4 |
| 6 | Preparation of specimens | 5 |
| 6.1 | Preparing sub-specimens | 5 |
| 6.2 | Conditioning and preparation of profile specimen for chloride testing | 6 |
| 7 | Procedure | 7 |
| 7.1 | Exposure conditions | 7 |
| 7.2 | Exposure method | 8 |
| 7.3 | Exposure period | 8 |
| 7.4 | Determination of initial chloride content (C_i) | 8 |
| 7.5 | Profile grinding | 9 |
| 7.6 | Chloride analysis | 9 |
| 8 | Regression procedure and expression of results | 9 |
| 9 | Test report | 11 |
| 10 | Precision | 12 |
| | Annex A (informative) Diffusion coefficients | 13 |
| | Annex B (informative) Core test specimen | 14 |
| | Annex C (normative) Immersion method for large specimens | 15 |
| | Annex D (informative) Typical equipment and procedure for vacuum saturation | 16 |
| | Annex E (informative) Procedures of specimen exposure to chloride solution | 18 |
| | Annex F (informative) Depth intervals of profile specimen grinding | 20 |