

ISO 13787:2003-05 (E)

Thermal insulation products for building equipment and industrial installations - Determination of declared thermal conductivity

| Contents | | Page |
|---|---|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 2 |
| 4 | Principles for the determination of declared thermal conductivity | 2 |
| 5 | Determination and verification of declared thermal conductivity | 3 |
| 5.1 | Measurement of thermal conductivity | 3 |
| 5.2 | Procedure for verification | 3 |
| Annex A (informative) Verification based on curve comparison | | 6 |
| A.1 | General | 6 |
| A.2 | Principle | 6 |
| A.3 | Test | 6 |
| A.3.1 | Measurement of thermal conductivity | 6 |
| A.3.2 | Procedure for comparison and decision | 6 |
| Annex B (informative) Statistical method to establish the declared thermal conductivity curve | | 8 |
| B.1 | General | 8 |
| B.2 | Symbols and units | 8 |
| B.3 | Establishment of declared values | 9 |
| B.3.1 | A large number of thermal conductivity results are available ($n > 50$ at each temperature) | 9 |
| B.3.2 | A small number of data are available ($n \leq 50$) | 9 |
| B.4 | Verification of the declared curve | 9 |
| B.5 | Examples | 10 |
| B.5.1 | Establishment of the declared curve | 10 |
| B.5.2 | Verification of the declared curve | 12 |
| Annex C (informative) Illustration of the procedure to verify thermal conductivity | | 16 |
| Bibliography | | 19 |