

DIN EN ISO 12571:2022-04 (E)

Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties (ISO 12571:2021)

Contents	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions, symbols and units	5
3.1 Terms and definitions	5
3.2 Symbols and units	6
4 Principle	6
4.1 Sorption curve	6
4.2 Desorption curve	6
5 Apparatus	7
5.1 Desiccator method	7
5.2 Climatic chamber method	7
6 Test specimens	7
6.1 Specification of the test specimens	7
6.2 Number of test specimens	7
7 Procedure	7
7.1 Test conditions	7
7.2 Desiccator method	8
7.2.1 General	8
7.2.2 Sorption curve	8
7.2.3 Desorption curve	9
7.3 Climatic chamber method	10
7.3.1 Sorption curve	10
7.3.2 Desorption curve	11
8 Calculation and expression of results	11
8.1 Hygroscopic sorption	11
8.2 Equilibrium moisture content curves	11
9 Accuracy of measurement	12
9.1 Error in moisture content	12
9.2 Control of environmental conditions	12
9.2.1 Desiccator method	12
9.2.2 Climatic chamber method	13
10 Test report	13
Annex A (informative) Air relative humidities above saturated solutions in equilibrium	14
Annex B (informative) Preparation of saturated solutions	17
Annex C (informative) Example of the procedure for determining a point on a sorption curve	20
Annex D (informative) Method using a glass jar	21
Bibliography	23