

# DIN EN ISO 12571:2022-04 (E)

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

---

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