

DIN ISO 9277:2026-08 (E)

Determination of the specific surface area of solids by gas adsorption - BET method (ISO 9277:2022)

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	3
5 Principle	3
6 Procedure	4
6.1 Sample preparation	4
6.2 Experimental conditions	7
6.3 Measuring methods for the assessment of the amount of adsorbed gas	8
6.3.1 General	8
6.3.2 Static manometric (volumetric) method	8
6.3.3 Flow manometric (volumetric) method	8
6.3.4 Gravimetric method	9
6.3.5 Carrier gas method	10
6.3.6 Dynamic vapour sorption method	11
7 Evaluation of adsorption data	11
7.1 General	11
7.2 Multipoint determination	12
7.3 Single-point determination	13
8 Test report	14
9 Use of reference materials	14
Annex A (informative) Cross-sectional areas of some frequently used adsorptives	15
Annex B (informative) BET area of microporous materials	16
Bibliography	21