

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