

# ISO 9277:2022-11 (E)

## Determination of the specific surface area of solids by gas adsorption - BET method

<b>Contents</b>		<b>Page</b>
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 adsorbents .....		15
Annex B (informative) BET area of microporous materials .....		16
Bibliography .....		21