

ISO 12800:2017-06 (E)

Nuclear fuel technology - Guidelines on the measurement of the specific surface area of uranium oxide powders by the BET method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
4.1	Summary of the BET method	1
4.2	Isothermal adsorption curves	1
4.3	Conditions and assumptions	2
5	Procedure	3
5.1	Sample preparation	3
5.2	Volumetric measurement	3
5.3	Gravimetric measurement	3
5.4	Original and single-point methods	3
5.5	Dynamic method (carrier gas method)	4
5.6	Alternative methods	4
6	Expression of results	4
6.1	Methods of calculation	4
6.1.1	Multipoint determination	4
6.1.2	Single-point determination	7
6.2	Precision and accuracy	7
7	Test report	7
Bibliography		8