

ISO/TS 23690:2023-07 (E)

Nanotechnologies - Multiwall carbon nanotubes - Determination of carbon impurity content by thermogravimetric analysis

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and abbreviated terms	1
3.1	Terms and definitions	1
3.2	Symbols	2
3.3	Abbreviated terms	2
4	Principle	2
5	Sample preparation	3
6	Measurement	3
6.1	Apparatus	3
6.1.1	Thermogravimetric analyser	3
6.1.2	Drying furnace	3
6.1.3	Analytical balance	3
6.1.4	Desiccator	3
6.2	Reagents	3
6.2.1	Inert gas	3
6.2.2	Carbon dioxide	3
6.3	Measurement procedures	3
7	Data analysis and interpretation of results	4
8	Measurement uncertainty	5
8.1	Type A uncertainty	5
8.2	Type B uncertainty	5
9	Test report	5
Annex A (informative) Repeatability test: Case study		7
Annex B (informative) Reproducibility test: Case study		15
Annex C (informative) Detailed procedures for the analysis of the TG curve		19
Bibliography		21