

ISO/TS 11308:2020-04 (E)

Nanotechnologies - Characterization of carbon nanotube samples using thermogravimetric analysis

Contents		Page
	Foreword	iv
	Introduction	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	2
5	Principles of TGA	3
	5.1 Measurement.....	3
	5.2 Exothermic and endothermic reactions.....	3
6	Sampling	3
	6.1 Sample pan selection.....	3
	6.2 Sample size.....	4
	6.3 Sample compaction.....	4
7	Test method	5
8	Data interpretation and results	5
	8.1 General.....	5
	8.2 Non-carbon content.....	6
	8.3 Constituents.....	7
	8.4 Thermal stability.....	7
	8.5 Homogeneity.....	7
	8.6 Purity.....	7
	8.7 Quality.....	7
9	Uncertainties	8
10	Test report	8
	Annex A (informative) Case studies	10
	Annex B (informative) Effects of operating parameters on TGA analysis	19
	Bibliography	22