

DIN EN 17505:2024-04 (E)

Soil and waste characterization - Temperature dependent differentiation of total carbon (TOC400, ROC, TIC900)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Interferences	6
5.1	Interference due to carbides	6
5.2	Interference due to sulfur and nitrogen compounds	7
5.3	Interference due to carbonates	7
5.4	Peak does not reach the baseline	9
5.5	Difficulties in separating ROC600 peak and TIC900A peak	10
5.6	Interferences due to premature releases and deflagrations	11
5.7	Interferences due to catalytic active substances in samples	11
6	Reagents	11
6.1	General	11
6.2	Standards for system control	12
7	Apparatus	13
7.1	Homogenization equipment, e.g. mixer, stirrer, grinders, mills	13
7.2	Analytical balance, (precise to at least 0,5 % of the test portion weight)	13
7.3	Equipment for determining different carbon types in solids	13
8	Procedure	13
8.1	General	13
8.2	Sample preparation and processing	13
8.3	Calibration	13
8.4	Measurement (Oxidative method A)	13
8.5	Measurement (Mixed oxidative/non-oxidative method B)	15
9	Evaluation	16
9.1	General	16
9.2	Control measurements	18
10	Expression of results	19
11	Test report	19
Annex A (informative) Performance characteristics		20
Annex B (informative) Cooling procedure for method B		30
Bibliography		31