

ISO 23873:2025-09 (E)

Hard coal - Method for the measurement of the swelling properties using a dilatometer

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Materials	2
6	Apparatus	2
6.1	Mould and accessories	2
6.2	Dilatometer	4
6.3	Dilatometer furnace	6
6.4	Temperature controller	6
6.5	Temperature recorder	6
6.6	Retort and piston	6
6.7	Means of recording piston movement	7
6.8	Cleaning instruments	7
6.9	Balance	7
7	Procedure	7
7.1	Temperature calibration	7
7.2	Preparation of test sample and test pieces	8
7.2.1	Test sample	8
7.2.2	Test piece	8
7.3	Determination	9
7.3.1	Number of tests	9
7.3.2	Inspection of apparatus	9
7.3.3	Determination of dilatation	9
7.3.4	Cleaning of the furnace, retort and piston	10
8	Expression of results	10
9	Precision	10
9.1	General	10
9.2	Repeatability	11
9.3	Reproducibility	11
10	Test report	11
Bibliography		14