

DIN EN 14770:2023-09 (E)

Bitumen and bituminous binders - Determination of complex shear modulus and phase angle - Dynamic Shear Rheometer (DSR)

Contents		Page
European foreword		3
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Apparatus	6
6	Preparation of rheometers	7
6.1	General	7
6.2	Selection of geometry	7
6.3	Set up	8
6.4	Zero gap setting	8
7	Specimen preparation	8
7.1	General	8
7.2	Heating procedure for the preparation of the binder	8
7.3	Specimen manufacturing and storage conditions	8
8	Procedure	9
8.1	General	9
8.2	Specimen placing into the rheometer	9
8.3	Gap setting	9
8.4	Temperature and frequency conditions selecting	10
8.5	Testing procedure	10
9	Expression of results	11
10	Precision	12
11	Test report	14
Annex A (informative) Temperature verification procedure		15
Annex B (informative) Determining equilibration time		16
Annex C (normative) Determination of the linear viscoelastic (LVE) range		17
Annex D (normative) Determining rheological parameters TX and TX		18
Annex E (informative) Flow chart		20
Bibliography		22