
Bitumen in bitumenska veziva - Ponavljajoči obremenilni in razbremenilni preskus lezenja (MSCRT)

Bitumen and bituminous binders - Multiple Stress Creep and Recovery Test (MSCRT)

Bitumen und bitumenhaltige Bindemittel - MSCR-Prüfung (Multiple Stress Creep and Recovery Test)

Bitumes et liants bitumineux- Essai de fluage-recouvrance sous contraintes répétées (essai MSCR)

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75.140	Voski, bitumni in drugi naftni proizvodi	Waxes, bituminous materials and other petroleum products
91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials

SIST EN 16659:2026**en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 16659

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ICS 75.140; 91.100.50

Supersedes EN 16659:2015

English Version

**Bitumens and bituminous binders - Multiple Stress Creep
and Recovery Test (MSCRT)**

Bitumes et liants bitumineux - Essai de fluage-
recouvrance sous contraintes répétées (essai MSCR)

Bitumen und bitumenhaltige Bindemittel - MSCR-
Prüfung (Multiple Stress Creep and Recovery Test)

This European Standard was approved by CEN on 9 February 2026.

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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 DSR	7
6.1	Set-up	7
6.2	Zero gap setting	7
7	Specimen preparation	7
7.1	Heating procedure for preparation of the binder	7
7.2	Specimen manufacturing and storage conditions	7
8	Procedure	8
8.1	Specimen placing into the DSR	8
8.2	Gap setting	8
8.3	Testing	9
9	Calculations	10
10	Expression of results	11
11	Precision	12
11.1	General	12
11.2	Repeatability, r	13
11.3	Reproducibility, R	13
12	Report	13
Bibliography		15

European foreword

This document (EN 16659:2026) has been prepared by Technical Committee CEN/TC 336 “Bitumens and bituminous binders”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2026, and conflicting national standards shall be withdrawn at the latest by September 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 16659:2015.

EN 16659:2026 includes the following significant changes with respect to EN 16659:2015:

- a) throughout the whole document:
 - the term “load” was replaced by the term “stress”;
 - the wording of shear strain and shear stress was aligned;
- b) in Clause 1, the scope has been revised to clarify that the document is not applicable to bituminous binders with particles larger than 250 μm and the safety warning was revised;
- c) in Clause 2, the normative references have been updated including the withdrawal of reference to EN 58;
- d) in Clause 3, the term 3.4 “*shear strain*” was added; the shear strain is now expressed in per cent instead of absolute values and the symbol of shear strain was changed from ε to γ ;
- e) in Clause 4, the testing temperature range was adjusted to [40 to 90] °C and the safety caution, moved from Clause 7, was added;
- f) in 5.1, the minimum range of rheometer control temperature was adjusted to [40 to 90] °C;
- g) in 5.2, the dimensions of the silicone mould were defined;
- h) in 5.3, the definition of opaque cover was added;
- i) Clauses 6, 7 and 8 have been revised in order to align with EN 14770 with regard to DSR zero gap setting, specimen manufacturing, specimen storage conditions, specimen placing into the rheometer and gap setting;
- j) in 7.1, the heating procedure was simplified with reference to EN 12594;
- k) in Clause 8, more detailed information about torque values, pre-loading cycles, more shear stress levels and subsequent testing at several test temperatures have been provided;
- l) in 8.3, Figure 1 has been revised for clarification;
- m) in 8.3.1, the testing temperature range was adjusted to [40 to 90] °C and a recommendation for the testing temperatures was added;