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## Road marking materials – Premix glass beads

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

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ICS 93.080.20

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**EN 1424**

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Descriptors: roads, signalling, marking, balls, glass, mixtures, specifications, grain size, classification, quality, defects tolerances, sampling, laboratory tests

English version

**Road marking materials – Premix glass beads**

Produits de marquage routier – Microbilles de verre de prémélange

Straßenmarkierungsmaterialien – Premixglasperlen

This European Standard was approved by CEN on 1997-06-20. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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## **Foreword**

This European Standard has been prepared by Technical Committee CEN/TC 226 "Road equipment", 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of an identical text or by endorsement, at the latest by February 1998, and conflicting national standards shall be withdrawn at the latest by February 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This European Standard specifies the requirements for laboratory tests (production control) and qualification procedures for the premixed glass beads used in road marking materials.

The requirements taken into consideration in this standard are:

- granulometry ;
- refractive index of the glass ;
- chemical resistance ;
- quality ;
- surface treatments.

This European Standard does not cover the glass beads used as a filler in marking products.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 565	Test sieves - Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings
ISO 2591-1	Test sieving - Part 1 : Methods using test sieves of woven wire cloth and perforated metal plate
EN 1423	Road marking materials - Drop-on materials - Glass beads, antiskid aggregates and mixtures of the two

## 3 Definition

For the purposes of this standard, the following definition applies:

### **premix glass bead**

Transparent spherical glass particle used to provide night visibility for road markings by retroreflecting the incident headlight beams of a vehicle towards the driver. These materials are premixed during manufacture into paints, thermoplastics materials, cold hardening plastics and any other marking product applied in the liquid state to the road surface. Premix glass beads can also be added to liquid marking materials just before their application to the road surface.