
**Toplotnoizolacijski ognjevzdržni izdelki - 8. del: Izrazi za zemljoalkalijske
silikatne (AES) volne**

Insulating refractory products - Part 8: Terminology for alkaline earth silicate (AES)
wools

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ICS

English version

Insulating refractory products - Terminology for alkaline earth silicate (AES) wools

Feuerfeste Erzeugnisse für Wärmedämmzwecke - Teil 8:
Terminologie für Erdalkali-Silicat-(AES-)Wolle

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If this draft becomes a European Standard, 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.

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Foreword

This document (prEN 1094-8:2005) has been prepared by Technical Committee CEN/TC 187 “Refractory products and materials”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

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1 Scope

This European Standard defines terms for those refractory products and materials, which are classed as AES wool products.

2 Definitions

2.1

AES wools

synthetic vitreous wools, suitable for use as heat-insulating materials, which have;

- a molar composition range and approximately corresponding composition range as mass % given in Table 1;
- a maximum use temperature, depending on form and composition, varying between 900 and 1300°C. Melting points vary from 1300°C to 1500°C;

Table 1 — Composition range

| Component | Molar % | Mass % |
|--|---------|--|
| CaO + MgO | > 19 | 18 < CaO + MgO < 43 |
| SiO ₂ | > 53 | 50 < SiO ₂ < 82 |
| Al ₂ O ₃ + TiO ₂ + ZrO ₂ | < 4 | Al ₂ O ₃ + TiO ₂ + ZrO ₂ < 6 |
| Total other oxides | < 2 | < 1 |

NOTE The EU regulation for synthetic vitreous wools, as proposed in Directive 97/69/EC distinguishes between materials with an alkali oxide and alkaline earth oxide (Na₂O + K₂O + CaO + MgO + BaO) content greater or less than 18 wt%. Fibres with compositions above this threshold, such as AES wools, can be exonerated from EU category 3 carcinogen classification if their half lives as determined by biopersistence tests conducted according to EU protocols, are < 10 days after inhalation exposure or < 40 days after intratracheal instillation. Since AES wools meet these criteria, they are exonerated in Europe from classification as carcinogens.

2.2

AES bulk

loose wool

AES wool in the state as produced, before conversion into other products

2.3

AES wool mat

flexible, non-needled, AES wool insulating material

2.4

AES wool blanket

flexible, normally needled, AES wool insulating material, free of binders, with nominally determined dimensions

2.5

AES wool felt

flexible insulating material of nominally determined dimensions, containing some proportion of inorganic and/or organic binders

2.6

AES wool (castable)

AES wool with inorganic and/or organic binders, which may be cast