

## Standard Reference Elastomers (SRE): BAM-E003

### Standard reference compound No. 2 for abrasion testing according to ISO 4649

Further standards which refer to the standard reference elastomer (SRE) are:

ASTM D 5963-2004; Annex A1.2

BS 903-A9:2020; Standard Rubber S2

ISO 177:1988, section 5.6

#### 1. Scope and field application

Standard reference compound No. 2, representative of a simple tyre tread rubber, is used for comparative abrasion tests described in the above mentioned standard. It establishes a uniform, steady level of abrasion loss and is used for determination of the mean relative abrasion index.

#### 2. Formulation of the rubber mixture

parts by mass

a) Natural rubber SMR L	100.0
b) Stearic acid	2.0
c) Antidegradant IPPD (Vulkanox 4010 NA)	1.0
d) Zinc oxide (Zinkoxyd aktiv)	5.0
e) Carbon black N 330 (Corax N 330)	50.0
f) Accelerator CBS (Vulkacit CZ)	0.5
g) Sulphur	2.5

Conditions of vulcanisation: 140 °C, 60 min

#### 3. Specifications

The mass loss of a production run, according to ISO 4649, measured with 15 test pieces, cut from a representative sheet (mean value of 15 medians of 3 runs for each test piece) shall agree with the mass loss of an earlier production run to within  $\pm 10$  %.

#### 4. Dimensions

8 mm x 181 mm x 181 mm  
(which will yield approximately 90 test pieces)

#### 5. Storage

Cool, dry, protected from light and kept in a protective cover (e.g. polyethylen bag) completely closed.

#### 6. Guarantee

If used properly: 3 years.

#### 7. Identification

The standard reference elastomeric sheet is labelled indicating the producer (BAM), the year of production, the standard, the type of SRE and serial number.

The SRE is produced, certified and supplied by

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