

Standard Reference Elastomers (SRE): BAM-E017

Elastomer ISO 13226 SRE-NBR/L

1. Scope and field application

These SREs are representative of NBR vulcanizates with low content of acrylonitrile.

They are used for the characterization of service fluids such as mineral oils, fuels, lubricants, hydraulic fluids, coolants and refrigerants with regard to their effect on vulcanized nitrile rubbers.

Especially the changes in mass and volume of the SRE when in contact with the service fluid under specified conditions may be included as supplementary data in specifications for the fluid concerned.

2 Formulation of the rubber mixture

Parts by mass

a) NBR with 18 % by mass of acrylonitrile	100,0
b) Zinc oxide	5,0
c) Stearic acid	1,5
d) Carbon black N 550	67,0
e) Accelerator MBTS-Masterbatch	1,9
f) Sulphur-Masterbatch	2,0

Conditions of vulcanization: 155 °C, 30 min

3. Specifications

Increase in volume in liquid B for fuels, as in ISO 1817; 40 °C, 48 h (53 - 59) %

4. Dimensions

2 mm x 181 mm x 181 mm

5. Storage

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

6. Guarantee

If used properly: 1 year.

7. Identification

The standard reference elastomer 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

Bundesanstalt für Materialforschung und -prüfung (BAM)

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