

# Standard Reference Elastomers (SRE): BAM-E013

### Elastomer ISO 13226 SRE-VMQ/1

#### 1. Scope and field application

These SREs are representative of heat-cured VMQ materials such as are used, e. g., for parts in contact with petroleum products in the mechanical-engineering and automotive sector.

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 silicone rubbers.

The changes in mass, volume, hardness, tensile strength and elongation at break 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)	Silicone rubber batch (Silopren HV 4/611)	100,0
b)	Black pigment (Silopren Farbpigment schwarz)	2,0
c)	Diatomaceous earth	20,0
d)	Dicumylperoxid (Perkadox BC)	0,9

Conditions of vulcanization: 170 °C, 10 min

#### 3. Specifications

a)	Density according to ISO 2781	(1,26 - 1,30) g/cm <sup>3</sup>
b)	Hardness according to ISO 48-4	(68 - 73) Shore A
	Hardness according to ISO 48-2	(68 - 73) IRHD
c)	Tensile strength according to ISO 37	(7 - 9) MPa
d)	Elongation at break according to ISO 37	(350 - 450) %
e)	Increase in mass in dioctyl sebacate	(12 - 15) %
	as in ISO 1817; 100 °C, 22 h	

## 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

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