

KES

Test Method on Rubber Sponge

KES T – L450

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1. Scope of application

This standard shall be applied to natural rubber, synthesized rubber or sponge made of those mixture and expansion rubber except for ebonite expansion rubber.

2. The kind

Rubber sponge is divided by 2 kinds as follows.

Kind	
Sponge rubber	Expansion rubber
R-E SB-ES SC-ES	RE-ES SBE-ES SCE-ES
R-S SB-S SC-S	RE-S SBE-S SCE-M
R-M SB-M SC-M	RE-M SBE-M SCE-M
RF SB SC-F	RE-F SBE-F SCE-F
R-EF SB-EF SC-EF	RE-EF SBE-EF SCE-EF

Remark R : Not required of oil resistance as made of natural rubber and synthesized rubber or those mixture

SB : A great extent of bulk expansion against petroleum oil or oil materials as made of synthesized rubber only or its mixture

SC : A small extent of bulk expansion against petroleum oil or oil materials made of synthesized rubber only or its mixture

ES : Very flexible

S : Flexible

M : Moderately flexible

F : Hard

EF : Very hard

3. Measurement

Shape and size of the rubber sponge should be appropriate to the purpose of use as the allowable error on size is shown on table 1.

Table 1

Unit : mm

<div>Measurement and allowable error</div> <div>Kind</div>	Thickness	Allowable error (%)	Length and width	Allowable error (%)
Sponge rubber and expansion rubber	Less than 3	±12	Less than 15	+5
	More than 3 less than 12	±11	More than 150 less than 600	-4
	More than 12 less than 38	±10	More than 300 less than 600	+4
	More than 38 less than 51	±9	More than 600 less than 900	-3
	More than 51 less than 56	±8	More than 900 less than 1200	—
	More than 56 less than 102	±7	More than 1200 less than 1500	+3
	More than 102	±6	More than 1500	-2

4. Quality

4.1 Appearance

The surface of rubber sponge should be even and the internal holes as porous structure should be the same.

4.2 Capacity

Rubber sponge should be tested by test method of the 5th clause and accorded with the regulations of table 2 and table 3.