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KS B 1563

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Spring Mounts for Vibration Isolation

KS B 1563 : 2003

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Spring Mounts for Vibration Isolation

1. Application Scope This standard apply to Spring Mounts (referred to "Mount" hereinafter) used for anti-vibration in general industrial machinery.

2. Referenced Standards These standards are quoted in this standard and thus, form a part of this standard. Their latest versions shall be applied.

- KS B 0250** Casting Products – Dimensions Tolerance & Cutting Reserve Method
- KS B 0412** Length Dimensions & Angular Dimensions Tolerance without Individual Tolerance Indications
- KS B 1002** Hexagonal Bolts
- KS B 1012** Hexagonal Nuts
- KS B 2402** Hot Molding Coil Spring
- KS B 2403** Cold Molding Compressed Coil Spring
- KS D 3503** Rolled Steel for General Structures
- KS D 3510** Hard Drawn Steel Wire
- KS D 3556** Piano Wire
- KS D 3701** Spring Steel
- KS D 4301** Gray Castings
- KS M 6617** Anti-Vibration Rubber Material

3. Types Mount Types are categorized as given in **Table 1**.

Table 1

Types	Reference
Open Type	No Housing and considers Vertical & Horizontal Vibration.
Closed Type	Has Housing and mainly considers Vertical Vibration.

4. Nomenclatures, Normal Load & Spring Constant Mount Nomenclatures, Normal Load & Spring Constants shall comply to the requirements given in **Table 2**.

Table 2

Types	Nomenclature	Normal Load (Maximum) N	Spring Constant N/cm	Minimum Static Displacement cm ⁽¹⁾
Open Type	SMA 50	490	196	2.5
	SMA 100	980	390	2.5
	SMA 150	1 470	588	2.5
	SMA 200	1 960	784	2.5
	SMA 300	2 940	1 176	2.5
	SMA 500	4 900	1 960	2.5
	SMA 750	7 350	2 940	2.5
	SMA 1 000	9 800	3 920	2.5
Closed Type	SMB 50	490	190	2.5
	SMB 100	980	390	2.5
	SMB 150	1 470	588	2.5
	SMB 200	1 960	784	2.5
	SMB 300	2 940	1 176	2.5
	SMB 500	4 900	1 960	2.5
	SMB 750	7 350	2 940	2.5
	SMB 1 000	9 800	3 920	2.5
	SMB 1 500	14 700	5 880	2.5
	SMB 2 000	19 600	7 840	2.5

Note ⁽¹⁾ Displacement when Normal Load (Maximum) is applied.

5. Quality

5.1 Mount shall not have harmful marks, eruptions or scratches.

5.2 Mount shall maintain sufficient useful life as specified in **Table 2** under normal load.

5.3 Mount shall undergo appropriate rust proofing and painting.

6. Dimensions & Structure

6.1 Major dimensions of Mount are reference values and as shown in **Appended Tables 1 & 2**. Here, inspections are performed using Manufacturer diagrams.

6.2 Dimensions Allowance shall be as follows:.

a) Cutting Areas : **KS B 0412** Normal Class

b) As Molded Areas : **KS B 0250** Middle Class

6.3 Spring Dimensions Allowances shall satisfy the requirements of **KS B 2402** or **KS B 2403** according to fabrication method.

6.4 Rubber Material Dimensions shall have sufficient permission not to affect adversely their attachment and usage.

6.5 Bolts & Nuts shall be equivalent to or better than Class 3 and 4T specified in **KS B 1002** & **KS B 1012**, respectively.

7. **Material** Materials used in each part of Mount shall be in accordance with Table 3 or their equivalent or better.