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Vibration damping clad steel sheet

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Vibration damping clad steel sheet

1 Scope

This Standard specifies the terms and definitions, classification and code, ordering content, dimensions, weight as well as allowable deviation, technical requirements, test methods, inspection rules, packaging, marks and quality certificate of vibration damping clad steel sheet.

This Standard is applicable to the steel sheet with vibration damping of which the thickness is 0.60mm~3.00mm used in the fields of automotive, home appliance, construction, machinery, etc. (hereinafter referred to as “vibration damping sheet”). The vibration damping clad steel sheet supplied with steel coil can also be implemented with reference to this Standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 247, *General rule of package mark and certification for steel plates (sheets) and strips*

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 16406, *Acoustics - Flexural resonance testing method for damping properties of acoustical materials*

GB/T 17505, *Steel and steel products General technical delivery requirements*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 vibration damping clad steel sheet

the product that a damping material is added to the two layers of steel sheets (hereinafter referred to as the substrate); it is supplied in rectangular plate, with

7 Technical requirements

7.1 Substrate

The substrate of the vibration damping sheet can use GB/T 2518, GB/T 5213, GB/T 14978, GB/T 15675, GB/T 20564, etc. If the purchaser needs other types of substrates, it can be negotiated at the time of ordering.

7.2 Chemical composition

The chemical composition of the vibration damping sheet shall comply with the requirements of the corresponding substrate standard.

7.3 Delivery status

The vibration damping sheets are usually supplied when they are oiled. The oil film shall be removed with an aqueous alkali solution or a normal solution. Under normal conditions of packaging, transport, loading-unloading and storage, the supplier shall ensure that the surface of the vibration damping sheet does not rust within 6 months from the date of completion of manufacture. If the purchaser asks the products delivered when they are not oiled, it shall be negotiated at the time of ordering.

7.4 Mechanical properties and coating properties

7.4.1 Mechanical properties of the vibration damping sheet refer to the mechanical properties of the substrate.

NOTE: Due to the influence of aging, the mechanical properties of the steel plate shall deteriorate with the storage time, such as the increase in yield strength and tensile strength, decrease in elongation after fracture, poor formability, tensile strain marks. It is recommended to use as early as possible.

7.4.2 Coating performance shall meet the requirements of the corresponding substrate standards.

7.5 Technology performance

7.5.1 The T-peel strength of the vibration damping sheet shall comply with the requirements of Table 5.

Table 5 -- T-peel strength

Nominal thickness / mm	T-peel strength / (N/cm) not less than
0.60~1.00	20
>1.00~1.40	25
>1.40~2.00	30

2	Damping coefficient peak η	GB/T 16406	GB/T 16406	GB/T 16406
3	Dimensions, shape	Piece by piece	1	Appropriate measuring tool
4	Surface quality	Piece by piece	1	Visual inspection

9 Inspection rules

9.1 The inspection and acceptance of the vibration damping sheet shall be carried out by the supplier quality inspection department.

9.2 The vibration damping sheet shall be accepted by batch. Each inspection lot shall consist of the vibration damping sheets of the same designation, the same specification, the same set of damping adhesives and the same processing technology.

9.3 The sampling quantity and sampling method of the vibration damping sheet shall comply with the provisions of Table 7.

9.4 The re-inspection and determination rules of the vibration damping sheet shall comply with the provisions of GB/T 17505.

9.5 The test results are rounded up according to the comparison method of rounded value. The rounding rules shall comply with the provisions of GB/T 8170.

10 Packaging, marks and quality certificate

The packaging, marks and quality certificate of vibration damping sheet shall comply with the provisions of GB/T 247.

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