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Performance requirements and test methods of non-woven on automotive filter – Part 2: Non-woven of filters for air filter

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Annex:

Numbers, standard names and initial implementation dates of 17 automotive industry standards

No.	Standard number	Standard name	Standard number being substituted	Initial implementation date (YYYY-MM-DD)
287	QC/T 991-2015	Passenger cars - Light alloy wheels - 90° impact test procedure		2015-10-01
288	QC/T 717-2015	Road vehicle – Wheels - Requirements and Measuring methods of radial and lateral run-out	QC/T 717-2004 ISO 16833:2006, MOD	2015-10-01
289	QC/T 52-2015	Refuse collection vehicle	QC/T 52-2000	2015-10-01
290	QC/T 652-2015	Suction-type sewer scavenger	QC/T 652-2000	2015-10-01
291	QC/T 992-2015	Municipal emergency service vehicle		2015-10-01
292	QC/T 993-2015	Explosive transport vehicle		2015-10-01
293	QC/T 994-2015	Demountable tanker carrier		2015-10-01
294	QC/T 995-2015	Hydrostatic drive modular transporter		2015-10-01
295	QC/T 764-2015	Road vehicles - Hydraulic braking system - Simple flare pipes, tube tapped holes male fittings and hose end fittings	QC/T 764-2006	2015-10-01
296	QC/T 239-2015	Specifications and bench test methods for commercial vehicle service brake	QC/T 239-1997 QC/T 479-1999	2015-10-01
297	QC/T 996-2015	Specifications and bench test methods of automobile air dryer		2015-10-01
298	QC/T 997-2015	Passenger car full load overall frame body structure requirements		2015-10-01

Performance requirements and test methods of non-woven on automotive filter – Part 2: Non-woven of filters for air filter

1 Scope

This Part specifies the classification, requirements, test methods, inspection rules, marking, packing, transportation and storage of non-woven of filters for air filter (hereinafter referred to as non-woven).

This Part applies to non-woven of filter for air filter.

2 Normative references

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

GB 6529, *Textiles – Standard atmospheres for conditioning and testing*

GB 8410, *Flammability of automotive interior materials*

GB 18401, *National general safety technical code for textile products*

GB/T 2828.1, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit(AQL) for lot-by-lot inspection*

GB/T 2912.1, *Textiles – Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde (Water extraction method)*

GB/T 5453, *Textiles – Determination of the permeability of fabrics to air*

GB/T 7573, *Textiles – Determination of pH of aqueous extract*

GB/T 17592, *Textiles – Test method of the use of banned azo colourants*

GB/T 22364, *Paper and board - Determination of resistance to bending*

GB/T 23344, *Textiles – Determination of 4-aminoazobenzene*

GB/T 24218.1, *Textiles – Test methods for nonwovens – Part 1: Determination of mass per unit area*

GB/T 24218.2, *Textiles - Test methods for nonwovens – Part 2: Determination of thickness*

GB/T 24218.3, *Textiles – Test methods for nonwovens – Part 3: Determination of tensile strength and elongation (strip method)*

HJ/T 324, *Specifications for environmental protection product – Fabric for bag house*

QC/T 794, *Internal-combustion engine industry filter paper*

3 Terms and definitions

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

3.1

hot forming presses filter media

non-woven filter media which are used for the hot forming process for the production of air filter

3.2

non-hot forming presses filter media

non-woven filter media which are used for the non-hot forming process for the production of air filter

3.3

precision filter media for commercial vehicle

non-woven filter media for air filter primary air element for commercial vehicle

Table 2 – Safety technical requirements

Item	Requirements
pH	4.0 ~ 8.5
Sensory odours	None
Formaldehyde content, mg/kg	≤ 10
Resoluble carcinogenic aromatic amine dyestuffs	Banned

4.2.4 Tolerance of dimensions

Tolerance of width of filter media is ± 1 mm. Drum diameter of filter media rolls is specified to be $\Phi 600$ mm, with a tolerance of ± 50 mm. Filter media rolls shall have standard drum cores with an inner diameter of $\Phi 76$ mm. Tolerance of thickness of filter media is ± 1 m.

NOTE: Width and drum core diameter of filter media can also be as agreed in contracts.

5 Test methods

5.1 Standard atmospheric conditions for sample processing and test shall be as specified in GB 6529.

5.2 Visual inspection is carried out for appearance inspection.

5.3.2 Calculation result:

$$\Delta G = | M - m | \div m \times 100\%$$

where:

ΔG – tolerance of grammage, %;

M – actually measured grammage, g/m²;

m – nominal grammage, g/m².

5.4 Tolerance of thickness

5.4.1 Determine thickness as specified in GB/T 24218.2.

5.4.2 Calculation result:

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