

JB

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JB/T 10718-2007

Woven air filter nets for air conditioners

空调用机织空气过滤网

(English Translation)

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1 Scope

This Standard specifies the terms and definitions, type and basic parameters, requirements, test methods, inspection rules as well as marking, packaging, transport and storage of the weaving air filter net (hereinafter referred to as "filter net").

This Standard is applicable to weaving air filter net for air conditioning and woven with polyacrylonitrile single filament (as for polyethylene, polyamide, polyester filament yarn, it may also be adopted by reference) (hereinafter referred to as "monofilament"), and as for air filter net for air cleaner and like products, it may be adopted by reference.

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, subsequent amendments (excluding amending errors in the text) to, or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest editions of these documents are applicable. For undated references, the latest edition of the normative documents referred to applies.

GB/T 3923.1 Textiles-Tensile Properties of Fabrics-Part 1:Determination of Maximum Force and Elongation at Maximum Force Using the Strip Method (GB/T 3923.1-1997,neq ISO/DIS 13934-1:1994)

GB/T 4667 Determination of the Breadth of Woven Fabrics (GB/T 4667-1995,eqv ISO 3932:1976)

GB/T 4668 Textiles - Woven fabrics- Determination of Number of Threads per Unit Length(GB/T 4668-1995,neq ISO 7211-2:1984)

GB/T 4669 Textiles - Woven fabrics - Determination of Mass per Unit Length and Mass per Unit Area (GB/T 4669-1995,eqv ISO 3801:1977)

GB/T 5453 Textiles - Determination of the Permeability of Fabrics to Air(GB/T 5453-1997,eqv ISO 9237:1995)

GB 6529 Standard Atmospheres for Textiles Conditioning and Testing(GB 6529-1986,neq ISO 139:1973)

GB/T 7141 Plastics - Methods of Exposure to Thermal Air(GB/T 7141-1992,neq JIS K 7212:1977)

GB/T 15552-1995 Testing Method for Silk and Filament Yarn Fabrics

GB/T 16422.3 Plastics - Methods of Exposure to Laboratory Light Sources - Part 3: Fluorescent UV Lamps (GB/T 16422.3-1997,eqv ISO 4892-3:1994)

GB 17591 Woven Flame Retardant Fabrics

GB 18883-2002 Indoor Air Quality Standard

GB 50325-2001 Code for Indoor Environmental Pollution Control of Civil Building Engineering

JG/T 22 Methods for Testing The Performance of Air Filters Used in General Ventilation

QB/T 2591 Antimicrobial Plastics -- Test for Antimicrobial Activity

3 Terms and Definitions

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

3.1 Catechin

It refers to the main component of tea polyphenol, including L-Epigallocatechin, D. L - Gallocatechin, L-epicatechin, D. L - catechin, L-Epigallocatechin gallate and epigallocatechin-3-gallate.

3.2 Photocatalyst

It refers to the generation process of active oxyhydrogen free radical (-OH) and super-oxygen ion (O_2^-) after electronic -cavity is generated on the material surface under light strike and reacts with H₂O and O₂ molecule on adsorbate on its surface.

3.3 Weaving air filter net

It refers to the reticulated fabric which can filter air and germs generated by warp and weft weaving by textile machine.

3.4 Antibiosis

It refers to the effect to kill bacteria vegetation, broodbody and control the growth and reproduction of bacteria.

3.5 Anti-mildew

It refers to the effect to kill fungi vegetation, broodbody and control the growth and reproduction of fungi.

3.6 Flame-retardant

It refers to the effect to prevent ignition and restrain flame transmission.

3.7 Anti-aging protective

It refers to the chemical reaction to prevent or delay optothermal aging.

3.8 Air penetrability

The performance for air to penetrate filter screen; it refers to rate for gasflow to pass sample vertically under the condition of the specified test area, pressuredrop and time, m/s.

3.9 Filtration efficiency

The ability for filter screen to collect dust particles, it refers to the ration standard test dust volume collected with filter screen and that entering filter screen, %.