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

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Glass fibre wet-laid mat

玻璃纤维湿法毡

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Foreword

This standard GB/T 1.1-2009 given rule drafting. The standard proposed by China Building Materials Federation. This standard by the National Standardization Technical Committee fiberglass (SAC/TC245) centralized. This standard is drafted by: Nanjing Fiberglass Research and Design Institute, Tianma Group Corporation, Jiangsu Changhai Composite Materials Co., Ltd. The main drafters of this standard. Chen Jianming, Wang Yumei, Xuan Weidong, Guowen, ranking Yunlong. Wet fiberglass mat

1 Scope

China's national product standard for glass fibre wet-laid mat. It specifies the classification, the requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of mats made by the wet-laid process. Wet-laid mat is made on what is essentially a paper machine: chopped glass fibres are dispersed in water, the slurry is drained on a moving wire to form a web, a binder is applied and the web is dried and wound. The route is borrowed from papermaking and it gives what the dry-laid processes cannot - a very uniform, thin, light mat with a controlled and open structure, made continuously and cheaply. That uniformity is the product. The mat is used as a carrier and a reinforcement in places where it is never seen: in roofing membranes, where it carries the bitumen and gives the sheet its tensile strength and dimensional stability; in flooring and wall coverings; as a surfacing veil on composites, where it holds a resin-rich layer at the surface and hides the print-through of the structural fibres; in filtration; and in battery separators. In every one of those the mat is impregnated with something, and the property that matters most is not strength alone but the consistency of the structure - a thin spot lets the bitumen through, a heavy spot will not wet out. So the standard specifies the mass per unit area and its uniformity, the thickness, the tensile strength dry and wet, the binder content and type, the moisture, the porosity or air permeability, and the dimensional characteristics of the roll. And it specifies the sampling, because the properties of a mat are averages over an area and mean nothing measured at a point. Issued on 20 July 2011 and in force since 1 March 2012.

This standard specifies the wet glass fiber mat (hereinafter referred to as the wet felt)

classification and code, specifications, requirements, test methods, inspection regulations Then, signs, packaging, transport and storage. This standard applies to chopped glass fiber strands as raw materials in the water dispersible, Beater, dehydration, sizing and drying process manufacturing The glass fiber mat. The glass fiber mat is mainly used as waterproof materials, laminates, plastic flooring, composite materials and other products in the surface layer of reinforcing material Material can also be used for pipe coating and the production of lead-acid battery separators.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 1549 Methods for chemical analysis of fiber glass

GB/T 3917.1 Textiles Tear properties of fabrics - Part 1. Ballistic pendulum method Determination of tear force

GB/T 4202 glass fiber product code

GB/T 5453 Determination of air permeability fabrics

GB/T 6006.2 fiberglass mat Test methods - Part 2. Determination of breaking tensile strength

GB/T 7689.1 Reinforcements method for woven fabrics Part 1. Determination of thickness for glass

GB/T 7690.5 Test method for yarns Part 5. Determination of fiber diameter glass

GB/T 9914.1 Test methods of enhancing Part 1. Determination of moisture content

GB/T 9914.2 Enhanced Test methods - Part 2. Determination of glass fiber content of combustibles

GB/T 9914.3 Enhanced Test methods - Part 3. Determination of mass per unit area

GB/T 17470-2007 glass fiber chopped strand mat and continuous strand mat

GB/T 18374 reinforcing material terms and definitions

3 Terms and Definitions

GB/T 18374 and established the following terms and definitions apply to this document.

3.1 Waterproof material felt matforwaterproofing Also known as roofing felt, such as an asphalt mat of reinforcing material for the manufacture of waterproofing membrane and

asphalt shingles.

3.2 Floor mats matforflooring Floor mats for reinforced plastics.

3.3 Battery separator carpet matforbatteryseparator Covered in fine glass wool felt, the complex lead-acid battery separator mat for production.

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