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Football fields with artificial turf for primary and middle schools

中小学人造草面层足球场地

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Table of Contents

Foreword

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This document is a supporting standard for the mandatory national standard GB

36246-2018 "Synthetic Material Surface Sports Venues for Primary and Secondary Schools" and is intended to Primary school artificial grass surface football field design, field foundation, raw materials, paving, positioning and marking, physical and mechanical properties, durability performance, flame retardancy, Anti-static properties and other requirements are put forward: These requirements are essential and crucial to effectively guarantee the performance of sports venues: It is conducive to further standardizing the quality of artificial turf football fields in primary and secondary schools, helping to comprehensively improve school running conditions, and in order to achieve sports intelligence, Provide technical support with a sports heart to enhance comprehensive quality and cultivate socialist builders and successors with comprehensive development of moral, intellectual, physical, artistic and labor development: Artificial grass surface football fields for primary and secondary schools

1 Scope

China's national standard for artificial turf football fields at primary and middle schools. It completes the group of school sports surface standards and addresses the most scrutinised of the three. Artificial turf is a carpet of polymer fibres held upright by an infill, and the infill has historically been crumb rubber from recycled tyres - which is cheap, works well, and brings into a children's playing field the polycyclic aromatic hydrocarbons, zinc and other substances that a tyre contains. That question has been argued internationally for two decades. The Chinese school standard resolves it by specifying what the infill may be and what the whole system may emit, alongside the playing requirements: the fibre's durability under abrasion, the shock absorption and vertical deformation that determine injury risk, and the rotational resistance that decides whether a boot releases or a knee turns.

This document gives the classification of artificial turf surface football fields for primary and secondary schools, stipulates the requirements, sampling, inspection rules and maintenance, and describes the test methods: test method: This document applies to the design, construction, acceptance and use of newly built, renovated and expanded outdoor artificial grass surface football fields in primary and secondary schools: maintain:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 1766 Rating method for aging of paint and varnish coatings

GB/T 6901 Chemical analysis method for siliceous refractory materials

GB/T 14833 Synthetic sports ground floor

GB/T 15905-1995 Humid heat aging test method for vulcanized rubber

GB/T 16422:2-2022 Plastic laboratory light source exposure test methods Part 2: Xenon arc lamp GB/T 19466:

6 Differential Scanning Calorimetry (DSC) for Plastics Part 6: Oxidation Induction Time (Isothermal OIT) and Oxidation Induction Determination of temperature (dynamic OIT)

GB/T 20394-2019 Artificial grass for sports

GB/T 21114 Cast glass sheet method for X-ray fluorescence spectrochemical analysis of refractory materials GB/T 31838:

3 Dielectric and resistive properties of solid insulating materials Part 3: Resistive properties (DC method) Surface resistance and surface resistivity

GB 36246 Primary and secondary school synthetic material surface sports venues

HJ644 Determination of volatile organic compounds in ambient air Adsorption tube sampling-thermal desorption/gas chromatography-mass spectrometry

JB/T 12202 wedge feeler gauge JGJ146 Construction site environment and health standards for construction projects JY/T 0629 Specifications for small football field construction and equipment equipment QB/T 2443 steel tape measure

3 Terms and definitions

The terms and definitions defined in GB 36246 and the following apply to this document: 3:

1 Synthetic fibers similar to natural grass are mechanically woven and fixed on the base fabric to form artificial grass, which is bonded on site and combined with elastic cushions and other necessary Other materials are assembled into the overall surface layer:

Note: If the artificial grass is filled with quartz sand and/or elastic particles, it is called a filled artificial grass surface layer, otherwise it is called an unfilled artificial grass surface layer: