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TNI	**Bicykle Kompozitné materiály použité na bicykloch Špecifické skúšobné metódy komponentov vyrobených z kompozitných materiálov**	**TNI CEN/TR 17112 30 9043**

Cycles - Composite material used in bicycles - Specific tests suitable for components manufactured from composite materials

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English Version

Cycles - Composite material used in bicycles - Specific tests suitable for components manufactured from composite materials

Cycles - Matériaux composites utilisés dans les bicyclettes - Essais spécifiques adaptés aux composants fabriqués à partir de matériaux composites

Fahrräder - Verbundwerkstoffe für Fahrräder - Spezifische Prüfverfahren für aus Verbundwerkstoffe hergestellte Komponenten

This Technical Report was approved by CEN on 26 June 2017. It has been drawn up by the Technical Committee CEN/TC 333.

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European foreword

This document (CEN/TR 17112:2017) has been prepared by Technical Committee CEN/TC 333 “Cycles”, the secretariat of which is held by UNI.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

1 Scope

The purpose of this Technical Report is to provide innovative requirements and test methods applicable to any category of bicycle (city/trekking, MTB, young adult and racing) containing components manufactured, in part or whole, from composite materials. Its aim is to provide technical solutions that reduce the risk of component failure and rider injury during the specified use of such bicycles.

This Technical Report includes requirements and test methods validated by the bicycle industry and test houses for composite assemblies including forks, frames, wheels, saddle rails and seat posts.

This Technical Report makes reference to current “state of the art” standards in the field of bicycles, agreed at CEN level through the publication of EN ISO 4210- series of standards. Therefore, the requirements and tests proposed in this Technical Report are intended to be read and applied in accordance with the appropriate EN ISO 4210 standard.

NOTE Please note that the tests described in this TR refer in places to paragraph numbers from the applicable EN ISO 4210- series.

2 Normative references

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

EN ISO 4210-2:2015, *Cycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles (ISO 4210-2:2015)*

EN ISO 4210-3:2014, *Cycles - Safety requirements for bicycles - Part 3: Common test methods (ISO 4210-3:2014)*

EN ISO 4210-4:2014, *Cycles - Safety requirements for bicycles - Part 4: Braking test methods (ISO 4210-4:2014)*

EN ISO 4210-5:2014, *Cycles - Safety requirements for bicycles - Part 5: Steering test methods (ISO 4210-5:2014, Corrected version 2015-02-01)*

EN ISO 4210-6:2015, *Cycles - Safety requirements for bicycles - Part 6: Frame and fork test methods (ISO 4210-6:2015)*

EN ISO 4210-7:2014, *Cycles - Safety requirements for bicycles - Part 7: Wheels and rims test methods (ISO 4210-7:2014)*

EN ISO 4210-9:2014, *Cycles - Safety requirements for bicycles - Part 9: Saddles and seat-post test methods (ISO 4210-9:2014)*