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Protective clothing for users of handheld chainsaws —

Part 5:

Performance requirements and test methods for protective gaiters

Vêtements de protection pour utilisateurs de scies à chaîne tenues à la main —

Partie 5: Exigences de performance et méthodes d'essai pour guêtres de protection

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Co	ntent	:S	Page
Fore	word		iv
Intr	oductio	on	v
1	Scop	oe	1
2	-	native references	
3		ns and definitions	
4	Requirements		
4	4.1 General		
	4.1	Fasteners	
	1.2	4.2.1 General	
		4.2.2 Attachment system	
		4.2.3 Twisting resistance of the gaiter	
	4.3	Innocuousness	
	4.4	Specified protective area	
	4.5	Classification according to chain speed	
	4.6	Cut resistance	
	4.7	Ergonomics	
5	Pre-	treatment	4
6	Test methods		4
	6.1	Test samples 11 An Standards	4
	6.2	Resistance to the chainsaw	4
		6.2.1 Principle	4
		6.2.2 Test specimens	4
		6.2.3 Apparatus	4
	6.3	Strength of the attachment system	
		6.3.1 Principle	4
		6.3.2 Test samples	
		6.3.3 Apparatus	, 5
		0.5.4 I repaining and fixing of samples for testing and procedure	5
	6.4	Twisting resistance of the gaiter	
		6.4.1 Principle	
		6.4.2 Test specimens	
		6.4.3 Test equipment	
	. -	6.4.4 Procedure	
	6.5	Ergonomic testing	
		6.5.1 Ergonomic assessment	6
		6.5.2 Procedures	
7		Test report	
8	Marl	Marking8	
9		ogram	
10	Info	rmation to be supplied by the manufacturer	9
Bibl	iograpl	ıy	11

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in collaboration with ISO Technical Committee TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 13, *Protective clothing*, in accordance with the agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 11393-5:2001), which has been technically revised. The whole document and the Scope have been revised. The main changes compared to the previous edition are as follows:

- in the Introduction, the term "hand-held chainsaws primarily constructed for cutting wood" has been added:
- the normative references have been updated;
- terms and definitions have been added;
- a conjunction of the gaiter to a defined boot for test purposes has become mandatory;
- requirements and test methods for ergonomic properties, twisting resistance, the strength of the attachment system and innocuousness have been added;
- requirements for protective coverage have been changed;
- class 0 has been deleted from the requirements to cut resistance;
- the pre-treatment procedure has been revised.

A list of all parts in the ISO 11393 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document forms part of a series concerned with personal protective equipment (PPE) designed to protect against the risks arising from the use of hand-held chainsaws primarily constructed for cutting wood.

No PPE can ensure a 100 % protection against cutting from a hand-held chainsaw. Nevertheless, experience has shown that it is possible to design PPE that offers a certain degree of protection.

Different functional principles may be applied in order to give protection. These include:

- a) chain slipping: on contact the chain does not cut the material;
- b) clogging: fibres are drawn by the chain into the drive sprocket and block chain movement;
- c) chain braking: fibres have a high resistance to cutting and absorb rotational energy, thereby reducing the chain speed.

Often more than one principle is applied.

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