

This is a preview of "ISO 11681-1:2011". [Click here to purchase the full version from the ANSI store.](#)

Third edition
2011-12-01

Machinery for forestry — Portable chain-saw safety requirements and testing —

Part 1:

Chain-saws for forest service

Matériel forestier — Exigences de sécurité et essais des scies à chaîne portatives —

Partie 1: Scies à chaîne pour travaux forestiers



Reference number
ISO 11681-1:2011(E)

© ISO 2011

This is a preview of "ISO 11681-1:2011". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 11681-1:2011". [Click here to purchase the full version from the ANSI store.](#)

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Safety requirements and/or protective measures	3
4.1 General	3
4.2 Handles	3
4.3 Hand protection	3
4.4 Balance	4
4.5 Protection against injury by kickback	5
4.6 Chain catcher	6
4.7 Spiked bumper	6
4.8 Chip discharge	6
4.9 Guide-bar cover	6
4.10 Engine starting device	6
4.11 Engine stopping device	7
4.12 Throttle control	7
4.13 Drive sprocket guard	8
4.14 Clutch	9
4.15 Protection against contact with parts under high voltage	9
4.16 Protection against contact with hot parts	9
4.17 Fuel and oil systems	11
4.18 Exhaust gases	12
4.19 Chain lubrication	12
4.20 Chain tensioning	13
4.21 Vibration	13
4.22 Noise	13
4.23 Electromagnetic immunity	14
5 Information for use	14
5.1 Instruction handbook	14
5.2 Marking	17
5.3 Warnings	18
5.4 Test of labels	18
Annex A (informative) List of significant hazards	20
Bibliography	22

This is a preview of "ISO 11681-1:2011". [Click here to purchase the full version from the ANSI store.](#)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 11681-1 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 17, *Manually portable forest machinery*.

This third edition cancels and replaces the second edition (ISO 11681-1:2004), which has been technically revised. It also incorporates the Amendment ISO 11681-1:2004/Amd.1:2007.

ISO 11681 consists of the following parts, under the general title *Machinery for forestry — Portable chain-saw safety requirements and testing*:

- *Part 1: Chain-saws for forest service*
- *Part 2: Chain-saws for tree service*

This is a preview of "ISO 11681-1:2011". [Click here to purchase the full version from the ANSI store.](#)

Introduction

This document is a type-C standard as stated in ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

At the time of publication of this edition, it was not state of the art to require that starting of the machine would be always possible without causing movement of the saw chain. Such a requirement will be considered for inclusion in the next revision of this International Standard.