

This is a preview of "ISO/TR 13392:2014". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2014-09-01

---

---

## Health and safety in welding and allied processes — Arc welding fume components

*Hygiène et sécurité en soudage et techniques connexes — Composants des fumées de soudage dans l'arc*



Reference numbers  
ISO/TR 13392:2014(E)

© ISO 2014

This is a preview of "ISO/TR 13392:2014". [Click here to purchase the full version from the ANSI store.](#)



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested 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](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO/TR 13392:2014". [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.....	1
4 Background.....	1
Bibliography.....	3

## 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](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

ISO/TR 13392 was prepared by the International Institute of Welding, Commission VIII Health and Safety. IIW is recognized as an international standardizing body in the field of welding in accordance with Council Resolution 42/1999.

This is a preview of "ISO/TR 13392:2014". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This Technical Report constitutes the considered judgement of experts on the range of principal components of fume which can be emitted from arc welding processes and identifies, as key components, those which are of greatest occupational hygiene significance and therefore require the most stringent control measures to ensure that a welder is not exposed to an excessive level of the substance concerned.

The report is intended to assist in hazard appreciation, risk assessment and risk control and thus contribute to improving the health and safety of welders and those working with them. It is also intended to assist medical professionals in their care of welders and others exposed to welding fume.

The constituent components of particular consumables and the fume arising from their use should be gained from the Safety Data Sheet produced by the manufacturer and supplied with the consumables.