

INTERNATIONAL
STANDARD

ISO
20349-1

First edition
2017-07

**Personal protective equipment —
Footwear protecting against risks in
foundries and welding —**

**Part 1:
Requirements and test methods for
protection against risks in foundries**

*Équipement de protection individuelle — Chaussures de protection
contre les risques dans les fonderies et lors d'opérations de soudage —
Partie 1: Exigences et méthode d'essai pour la protection contre les
risques dans les fonderies*



Reference number
ISO 20349-1:2017(E)

© ISO 2017



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification of footwear	2
5 Sampling and conditioning	2
6 Requirements	2
7 Specific requirements	4
7.1 Height of upper	4
7.2 Footwear design	4
7.3 Resistance to the effects of molten metal	5
7.4 Resistance of upper to contact heat transmission	5
7.5 Burning behaviour	5
7.6 Heat insulation of sole complex	5
7.7 Surface shrinkage of leather	5
7.8 Footwear removal time	7
7.9 Innocuousness	7
8 Marking	7
9 Information to be supplied by the manufacturer	8
9.1 General	8
9.2 Information regarding perforation resistant insert	9
9.3 Electrical properties	10
9.3.1 Antistatic footwear	10
9.3.2 Electrically insulating footwear	10
9.4 Insocks	10
Annex A (normative) Test method for the resistance of footwear to the effects of large quantities of molten metal	11
Bibliography	15