



# SLOVENSKI STANDARD

## SIST EN 12477:2002/A1:2005

01-oktober-2005

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### Varovalne rokavice za varilce

Protective gloves for welders

Schutzhandschuhe für Schweißer

Gants de protection pour soudeurs

Ta slovenski standard je istoveten z: **EN 12477:2001/A1:2005**

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#### **ICS:**

13.340.40	Varovanje dlani in rok	Hand and arm protection
25.160.01	Varjenje, trdo in mehko spajkanje na splošno	Welding, brazing and soldering in general

**SIST EN 12477:2002/A1:2005**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12477:2001/A1**

June 2005

ICS 13.340.40

English version

## Protective gloves for welders

Gants de protection pour soudeurs

Schutzhandschuhe für Schweißer

This amendment A1 modifies the European Standard EN 12477:2001; it was approved by CEN on 14 April 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This document (EN 12477:2002/A1:2005) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This Amendment to the European Standard EN 12477:2001 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2005, and conflicting national standards shall be withdrawn at the latest by December 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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**EN 12477:2002/A1:2005 (E)****1 Scope**

Add after the first sentence of the third paragraph:

The glove's material provides minimum electrical resistance up to 100V (DC) for arc welding.

Add after the last sentence of the third paragraph the following warning notice:

WARNING: It is not meant to bring any protection in case of defective or wrong use of the welding equipment. It does not qualify the glove for protection against electrical shock where protective gloves designed according to EN 60903 shall be used.

**2 Normative references**

Replace prEN 420:1998 with EN 420:2003.

Add reference: EN 1149-2:1997, Protective clothing – Electrostatic properties – Part 2: Test method for measurement of the electrical resistance through a material (vertical resistance).

Add new subclause (3.4):

**3.4 Optional requirements for gloves intended for arc welding in normal conditions of use**

Gloves shall be designed without electrical conductive connection between their outside and inside parts, e.g. by metal parts as rivets. Conformity shall be checked by visual inspection.

The electrical vertical resistance for gloves type A and B shall be  $> 10^5 \Omega$ . The testing shall be according to 5.10.

Add new subclause (5.10):

**5.10 Test for gloves intended for arc welding in normal conditions of use - Electrical vertical resistance**

The material for welders' protective gloves shall be conditioned for at least 24 h in an atmosphere having a temperature of  $(20 \pm 2) ^\circ\text{C}$  and a relative humidity of  $(85 \pm 3) \%$ . Testing in accordance with EN 1149-2 shall be carried out under these conditions or within 5 min of removal from this atmosphere.

The vertical electrical resistance of each differing part of the glove or gauntlet including the cuff shall be tested. If the external surface of the glove on its own exceeds the requirements, then only the differing external surfaces need to be tested. However, if the external surface does not pass but the combination of the external surface and the lining do meet the requirements, then each differing construction of the glove and cuff shall be tested.

**7 Information supplied by the manufacturer**

Replace last paragraph, starting with "*The manufacturer shall indicate that:*", last indent, by:

- When gloves are intended for arc welding: these gloves do not provide protection against electric shock caused by defective equipment or live working, and the electrical resistance is reduced if gloves are wet, dirty or soaked with sweat, this could increase the risk.

Add a Bibliography:

## Bibliography

- [1] EN 60903, *Live working - Gloves and mitts of insulating material (IEC 60903:2002 + corrigendum 2003, modified)*

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