



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN ISO 15610:2004

ICS 25.160.10

**SPECIFICATION AND QUALIFICATION OF
WELDING PROCEDURES FOR METALLIC
MATERIALS - QUALIFICATION BASED ON
TESTED WELDING CONSUMABLES
(ISO 15610:2003)**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
January 30, 2004*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2004

Price Code H

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 15610

November 2003

ICS 25.160.10

Supersedes EN 288-5:1994

English version

Specification and qualification of welding procedures for metallic materials - Qualification based on tested welding consumables (ISO 15610:2003)

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Qualification basée sur des produits consommables soumis à essais (ISO 15610:2003)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Qualifizierung aufgrund des Einsatzes von geprüften Schweißzusätzen (ISO 15610:2003)

This European Standard was approved by CEN on 7 May 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard 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 Management Centre has the same status as the official versions.

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



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

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

EN ISO 15610:2003 (E)

Contents

| | Page |
|---|------|
| Foreword | 3 |
| Introduction | 4 |
| 1 Scope | 4 |
| 2 Normative references | 5 |
| 3 Terms and definitions..... | 5 |
| 4 Preliminary welding procedure specifications (pWPS) | 5 |
| 5 Qualification of the welding procedure | 5 |
| 6 Range of qualification | 5 |
| 7 Validity | 7 |
| 8 Welding Procedure Qualification Record (WPQR) | 7 |
| Bibliography | 8 |

Foreword

This document (EN ISO 15610:2003) has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS, in collaboration with ISO/TC 44 "Welding and allied processes".

This European Standard EN ISO 15610:2003 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2004, and conflicting national standards shall be withdrawn at the latest by May 2004.

This document supersedes EN 288-5:1994.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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

EN ISO 15610:2003 (E)**Introduction**

In EN ISO 15607, one of the methods of welding procedure qualification is based on tested welding consumables.

1 Scope

This European Standard is a part of a series of standards, details of this series are given in EN ISO 15607:2003, annex A.

This standard gives the necessary information to explain the requirements referenced in EN ISO 15607:2003 about the qualification of welding procedures based on tested consumables.

In addition, it gives the range of qualification.

This European Standard applies to arc and gas welding in accordance with Table 1.

Table 1 — Applicable welding processes

| Process number according to EN ISO 4063 | Welding process | Process applicable for alloys based on steel | Process applicable for alloys based on aluminium |
|---|---|--|--|
| 111 | Manual metal arc welding (metal arc welding with covered electrode) | X | - |
| 114 | Self-shielded tubular-cored arc welding | X | - |
| 131 | Metal inert gas welding ; MIG welding | X | X |
| 135 | Metal active gas welding ; MAG welding | X | - |
| 136 | Tubular cored metal arc welding with active gas shield | X | - |
| 137 | Tubular cored metal arc welding with inert gas shield | X | - |
| 141 | Tungsten inert gas welding ; TIG welding | X | X |
| 15 | Plasma arc welding | X | X |
| 3 | Gas welding | X | - |
| NOTE X indicates the process for which EN ISO 15610 is applicable and - indicates the process for which the standard is not applicable. | | | |

Other fusion welding processes may be accepted if specified.

This standard is limited to application to parent metals which produce acceptable micro structures and properties in the heat affected zone which do not deteriorate significantly in service.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-