



National Standards Authority of Ireland

IRISH STANDARD

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ICS 25.160.10

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

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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.

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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.

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EN ISO 15610:2003 (E)

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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of an identical text or by endorsement, at the latest by May 2004, and conflicting national standards shall be withdrawn at the latest by May 2004.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.

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