Irish Standard
I.S. EN 1396:2015

Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications

I.S. EN 1396:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:	*Published:*
EN 1396:2015	2015-04-01

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2015-04-18	77.150.10
	NOTE: If blank see CEN/CENELEC cover page

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1396

April 2015

ICS 77.150.10

Supersedes EN 1396:2007

English Version

Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications

Aluminium et alliages d'aluminium - Tôles et bandes revêtues en bobine pour applications générales - Spécifications

Aluminium und Aluminiumlegierungen - Bandbeschichtete Bleche und Bänder für allgemeine Anwendungen - Spezifikationen

This European Standard was approved by CEN on 31 January 2015.

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Foreword

This document (EN 1396:2015) has been prepared by Technical Committee CEN/TC 132 “Aluminium and aluminium alloys”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2015 and conflicting national standards shall be withdrawn at the latest by October 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Introduction

Organic coated aluminium and aluminium alloy strip and sheet products can be used to advantage in cases where corrosion resistance and decorative appearance are of primary importance. They have applications throughout the flat products processing industry e.g. in the building, automotive, caravans, appliances, fabricating and packaging industries.

Organic coated aluminium and aluminium alloy flat products can be delivered in numerous types and grades, depending on the base material used (various grades of aluminium), on the coating material and types of coating and on the requirements for the surface appearance and the formability.

The properties of the products can vary within greater or smaller limits depending on the choice and combination of properties required. It is therefore not practicable to specify in detail minimum requirements for all properties for all types of products.

As a general rule, material specifications shall be agreed between manufacturer and user/purchaser using, when appropriate, the guidelines from Annex C.

Guidelines for proper storage and subsequent processing of organic coated aluminium flat products are given in Annex D.

1 Scope

This European Standard specifies the particular requirements for wrought aluminium and wrought aluminium alloys in the form of coil coated sheet and strip for general applications. This product is generally supplied in thicknesses up to 3,0 mm.

It applies to cold-rolled aluminium and aluminium alloy strip coated by the coil coating process both with liquid as well as with powder paints, either in the final width or slit afterwards, and to sheet obtained from such strip.

It does not apply to coil coated sheet and strip used for special applications such as cans, closures and lids which are dealt with in separate EN 541.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 485-1, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 1: Technical conditions for inspection and delivery*

EN 485-4, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 4: Tolerances on shape and dimensions for cold-rolled products*

EN 515, *Aluminium and aluminium alloys - Wrought products - Temper designations*

EN 573-3, *Aluminium and aluminium alloys - Chemical composition and form of wrought products - Part 3: Chemical composition and form of products*

EN 12258-1:2012, *Aluminium and aluminium alloys - Terms and definitions - Part 1: General terms*

EN 13523-1, *Coil coated metals - Test methods - Part 1: Film thickness*

EN 13523-2, *Coil coated metals - Test methods - Part 2: Gloss*

EN 13523-3, *Coil coated metals - Test methods - Part 3: Colour difference - Instrumental comparison*

EN 13523-4, *Coil coated metals - Test methods - Part 4: Pencil hardness*

EN 13523-6, *Coil coated metals - Test methods - Part 6: Adhesion after indentation (cupping test)*

EN 13523-7, *Coil coated metals - Test methods - Part 7: Resistance to cracking on bending (T-bend test)*

EN 13523-8, *Coil coated metals - Test methods - Part 8: Resistance to salt spray (fog)*

EN 13523-10, *Coil coated metals - Test methods - Part 10: Resistance to fluorescent UV radiation and water condensation*

EN 13523-19, *Coil coated metals - Test methods - Part 19: Panel design and method of atmospheric exposure testing*

EN 13523-21, *Coil coated metals - Test methods - Part 21: Evaluation of outdoor exposed panels*

EN 13523-22, *Coil coated metals - Test methods - Part 22: Colour difference - Visual comparison*

EN ISO 1520, *Paints and varnishes - Cupping test (ISO 1520)*