



SLOVENSKI STANDARD

SIST EN 12392:2016/oprA1:2019

01-julij-2019

Aluminij in aluminijeve zlitine - Gnetne in ulite zlitine - Posebne zahteve za aluminijeve izdelke za izdelavo naprav, ki delajo pod tlakom - Dopolnilo A1

Aluminium and aluminium alloys - Wrought products and cast products - Special requirements for products intended for the production of pressure equipment

Aluminium und Aluminium Legierungen - Knet- und Gusserzeugnisse - Besondere Anforderungen an Erzeugnisse für die Fertigung von Druckgeräten

Aluminium et alliage d'aluminium - Produits corroyés et moulés - Exigences particulières pour les produits destinés à la fabrication des appareils à pression

[SIST EN 12392:2016/oprA1:2019](https://standards.iteh.ai/catalog/standards/sist/f21fbd6b-31b5-47e6-ad78-79c0d679b057/sist-en-12392-2016/oprA1-2019)

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ICS:

77.150.10 Alumijski izdelki Aluminium products

SIST EN 12392:2016/oprA1:2019 **en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 12392:2016
prA1

April 2019

ICS 77.150.10

English Version

Aluminium and aluminium alloys - Wrought products and cast products - Special requirements for products intended for the production of pressure equipment

Aluminium et alliage d'aluminium - Produits corroyés et moulés - Exigences particulières pour les produits destinés à la fabrication des appareils à pression

Aluminium und Aluminium Legierungen - Knet- und Gusserzeugnisse - Besondere Anforderungen an Erzeugnisse für die Fertigung von Druckgeräten

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 132.

This draft amendment A1, if approved, will modify the European Standard EN 12392:2016. If this draft becomes an amendment, 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.

This draft amendment was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 12392:2016/prA1:2019) has been prepared by Technical Committee CEN/TC 132 “Aluminium and its alloys”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of EN 12392:2016.

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EN 12392:2016/prA1:2019 (E)

1 Modifications to Clause 7, Table 3 “Cast products – Chemical composition limits”

In clause 7, replace table 3 with the following:

Alloy designation		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti ^c	Other each ^{a,b}	Other total ^{a,b}	Aluminium
Numerical	Chemical symbols														
EN AC-21000	EN AC-Al Cu4MgTi	0,20	0,35	4,2 to 5,0	0,10	0,15 to 0,35	-	0,05	0,10	0,05	0,05	0,15 to 0,30	0,03	0,10	Remainder
EN AC-21100	EN AC-Al Cu4 Ti	0,18	0,19	4,2 to 5,2	0,55	-	-	-	0,07	-	-	0,15 to 0,30	0,03	0,10	Remainder
EN AC-41000	EN AC-Al Si2MgTi	1,6 to 2,4	0,60	0,10	0,30 to 0,50	0,45 to 0,65	-	0,05	0,10	0,05	0,05	0,05 to 0,20	0,05	0,15	Remainder
EN AC-42100	EN AC-Al Si7Mg0,3	6,5 to 7,5	0,19	0,05	0,10	0,25 to 0,45	-	-	0,07	-	-	0,25 ^d	0,03	0,10	Remainder
EN AC-42200	EN AC-Al Si7Mg0,6	6,5 to 7,5	0,19	0,05	0,10	0,45 to 0,70	-	-	0,07	-	-	0,25 ^d	0,03	0,10	Remainder
EN AC-43000	EN AC-Al Si10Mg(a)	9,0 to 11,0	0,55	0,05	0,45	0,20 to 0,45	-	0,05	0,10	0,05	0,05	0,15	0,05	0,15	Remainder
EN AC-43300	EN AC-Al Si9Mg	9,0 to 10,0	0,19	0,05	0,10	0,25 to 0,45	-	-	0,07	-	-	0,15	0,03	0,10	Remainder
EN AC 44000	EN AC-ALSi11	10,0 to 11,8	0,19	0,05	0,10	0,45	-	-	0,07	-	-	0,15	0,03	0,10	Remainder
EN AC 44200	EN AC-ALSi12(a)	10,5 to 13,5	0,55	0,05	0,35	-	-	-	0,10	-	-	0,15	0,05	0,15	Remainder

Alloy designation		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti ^c	Other each ^{a,b}	Other total ^{a,b}	Aluminium
Numerical	Chemical symbols														
EN AC 45500	EN AC- AlSi7Cu0.5Mg	6,5 to 7,5	0,19	0,2 to 0,7	0,10	0,20 to 0,45	-	-	0,07	-	-	0,20 ^d	0,03	0,10	Remainder
EN AC-51300	EN AC-AlMg5 ^e	0,55	0,55	0,10	0,45	4,5 to 6,5	-	-	0,10	-	-	0,20	0,05	0,15	Remainder

a In Al-Si alloys, "Others" does not include modifying or refining elements such as Na, Sr, Sb and P.

b "Others" includes all the elements which are not listed in this Table or without specific values.

c Refining agents such as Ti, B or master alloys containing nucleating particles such as TiB₂ shall not be considered as impurities. Nevertheless, the minimum and maximum content of refining elements shall be agreed between supplier and purchaser.

d Minimum Ti limits are not necessary if the grain refining is not necessary or achieved by an alternative method.

e For alloys with Mg ≥ 3 %, the alloy may contain 0,01 % Be max.

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