
ICS 17.220.20; 29.030

English Version

**Magnetic materials - Part 16: Methods of measurement of the
magnetic properties of Fe-based amorphous strip by means of a
single sheet tester
(IEC 60404-16:2018/COR1:2018)**

Matériaux magnétiques - Partie 16: Méthodes de mesure
des propriétés magnétiques des bandes en alliage amorphe
à base de fer à l'aide de l'essai sur tôle unique
(IEC 60404-16:2018/COR1:2018)

Magnetische Werkstoffe - Teil 16 : Verfahren zur Messung
der magnetischen Eigenschaften von eisenbasiertem,
amorphem Band unter Verwendung eines
Tafelmessgerätes
(IEC 60404-16:2018/COR1:2018)

This corrigendum becomes effective on 21 December 2018 for incorporation in the English language version of the EN.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

Endorsement notice

The text of the corrigendum IEC 60404-16:2018/COR1:2018 was approved by CENELEC as EN IEC 60404-16:2018/AC:2018-12 without any modification.

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 60404-16
Edition 1.0 2018-03

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MAGNETIC MATERIALS –

**Part 16: Methods of measurement of the
magnetic properties of Fe-based amorphous
strip by means of a single sheet tester**

MATÉRIAUX MAGNÉTIQUES –

**Partie 16: Méthodes de mesure des propriétés
magnétiques des bandes
en alliage amorphe à base de fer à l'aide de
l'essai sur tôle unique**

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections portant sur la version française figurent après le texte anglais.

Replace Formula (2) with the following new formula:

$$J(t) = \frac{1}{N_2 A} \left\{ \int_0^t U_2(\tau) d\tau - \frac{1}{T} \int_0^T \left(\int_0^t U_2(\tau) d\tau \right) dt \right\} \quad (2)$$

Add, after Formula (2), at the end of the paragraph beginning with "where", the following line:

τ is an auxiliary time variable.

Replace Formula (3) with the following new formula:

$$H(t) = \frac{1}{\mu_0 (N_H A_H)} \left\{ \int_0^t U_H(\tau) d\tau - \frac{1}{T} \int_0^T \left(\int_0^t U_H(\tau) d\tau \right) dt \right\} \quad (3)$$

Add, after Formula (3), at the end of the paragraph beginning with "where", the following line:

τ is an auxiliary time variable.

Replace Formula (B.4) and the existing line of text below it with the following two new formulas and the new text between them:

$$h_j = h'_j - \frac{1}{n} \sum_{k=0}^{n-1} h'_k \quad (\text{B.4})$$

The second term of Formula (B.4) is the average over the length of a period which compensates for the integration constant. The signal h'_j is the result of the integration of the digitalized voltage measured at the H-coil which includes the integration constant and is to be calculated as follows:

$$h'_j = \frac{1}{\mu_0 f_s (N_H A_H)} \sum_{k=0}^j u_{Hk} \quad (\text{B.4A})$$

Replace Formula (B.5) and the line text before it with the following new line text and new formula:

The magnetic polarization $J(t)$ can be calculated by using

$$J(t) = \frac{1}{N_2 A} \left\{ \int_0^t U_2(\tau) d\tau - \frac{1}{T} \int_0^T \left(\int_0^t U_2(\tau) d\tau \right) dt \right\} \quad (\text{B.5})$$

Add the following text after the new Formula (B.5):

where

τ is an auxiliary time variable.