

IEC 62359
(Second edition – 2010)

**Ultrasonics – Field characterization – Test methods for the determination of thermal
and mechanical indices related to medical diagnostic ultrasonic fields**

CORRIGENDUM 1

3.1
acoustic attenuation coefficient

Replace NOTE 2 by the following:

NOTE 2 **Acoustic attenuation coefficient** is expressed in decibels per metre per hertz ($\text{dB m}^{-1} \text{Hz}^{-1}$).

3.2
acoustic absorption coefficient

Replace NOTE 2 by the following:

NOTE 2 **Acoustic absorption coefficient** is expressed in neper per metre per hertz ($\text{Np m}^{-1} \text{Hz}^{-1}$).

3.4.2
arithmetic-mean acoustic-working frequency

Add the following NOTE 3:

NOTE 3 If f_2 is not found within the range $< 3 f_1$, f_2 is to be understood as the lowest frequency above this range at which the spectrum magnitude is -3 dB from the peak magnitude.

4 List of symbols

Replace

μ_0 acoustic absorption coefficient

by

μ_0 **acoustic absorption coefficient**

A.4.1.4 Rationale for the bounded-square output power and attenuated bounded-square output power

In the second paragraph, seventh line, replace “attenuated bounded square output power” by “attenuated bounded-square output power”.

Delete the parenthesis at the end of the second paragraph.

A.4.2.1 Derivation of break-point depth

In Equation A.3, change the font of the value 1,13 from New Times Roman italics to Arial upright.

A.4.3 Derivation notes for the thermal models used

In the fourth paragraph, replace $\mu_o = 0,1 \text{ NP cm}^{-1} \text{ MHz}^{-1}$ by $\mu_o = 0,1 \text{ Np cm}^{-1} \text{ MHz}^{-1}$.

Replace equation A.11 by the following:

$$P_{\text{deg}} = \frac{(21 \text{ Np} \cdot \text{mW} \cdot \text{cm}^{-2})(1,0 \text{ cm})}{(0,1 \text{ Np} \cdot \text{cm}^{-1} \cdot \text{MHz}^{-1})(f_{\text{awf}})} \triangleq \frac{210 \text{ mW MHz}}{f_{\text{awf}}}$$

B.3.2 Measurements with beams scanning

In the fifth paragraph, replace [Error! Bookmark not defined.] by [31].

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