

[Available Issues](#) | [Japanese](#)
[>> Publisher Site](#)

 Author: [ADVANCED](#) | Volume Page
 Keyword: |

[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1881-3984

PRINT ISSN : 1344-6606

Food Science and Technology Research

Vol. 9 (2003) , No. 4 pp.361-363

[\[PDF \(125K\)\]](#) [\[References\]](#)

Dielectric Properties of Frozen Surimi at 915 MHz and 2450 MHz

[Weijie MAO](#)¹⁾, [Manabu WATANABE](#)¹⁾ and [Noboru SAKAI](#)¹⁾

1) *Department of Food Science and Technology, Tokyo University of Marine Science and Technology*

(Received: April 28, 2003)

(Accepted: August 1, 2003)

Dielectric properties of two types of unsalted frozen surimi (SA grade made on shipboard and K grade made in onshore plants) at 2450 MHz and 915 MHz were measured from 30°C to 30°C by the open-ended coaxial probe method. The values of dielectric constant and loss factor varied with temperature, being very small at low temperatures, whereas above the freezing point the values increased rapidly. Penetration depths which were calculated from the dielectric constant and loss factor also varied with temperature. Moreover, there was no difference in the dielectric constant or loss factor of the two kinds of surimi below the freezing point; there was a difference in the dielectric constant above the freezing point, however, due to the difference in moisture content of the surimi.

Keywords: [dielectric properties](#), [frozen surimi](#), [microwave thawing](#)

[\[PDF \(125K\)\]](#) [\[References\]](#)
Download Meta of Article [\[Help\]](#)
[RIS](#)
[BibTeX](#)

To cite this article:

Dielectric Properties of Frozen Surimi at 915 MHz and 2450 MHz Weijie MAO, Manabu WATANABE and Noboru SAKAI, *FSTR*. Vol. 9, 361-363. (2003) .

doi:10.3136/fstr.9.361

JOI JST.JSTAGE/fstr/9.361

Copyright (c) 2007 by Japanese Society for Food Science and Technology



[Japan Science and Technology Information Aggregator, Electronic](#)

