

ELASTIMETER

ELEGANT INDENTATION INSTRUMENT FOR SKIN ELASTICITY MEASUREMENTS

PRODUCT BENEFITS

- ♦ Fully portable indentation instrument
- ♦ Measures skin's instant elasticity
- ♦ Fast and convenient measurement
- ♦ Does not alter skin structure
- ♦ Battery operated
- ♦ Wireless data collection with DMC software



APPLICATION AREAS

- ♦ Product and formulation R&D in pharmaceutical, personal care and chemical industries
- ♦ Claims validation work
- ♦ Efficacy testing
- ♦ Changes of biomechanical properties of skin
- ♦ Skin research studies and clinical trials
- ♦ Evaluation of medical conditions
- ♦ Detection of edema

SKIN ELASTICITY

The measurement of skin elasticity has been challenging with current conventional devices that easily alter the measured skin site. To eliminate this and to introduce quick and practical elasticity measurements, Delfin has developed the new portable ElastiMeter.

The ElastiMeter utilizes an indenter that is briefly pressed on the skin. The skin resists the change in shape when an external force is applied to it and thus the skin's response under a short term load indicates its elastic properties.

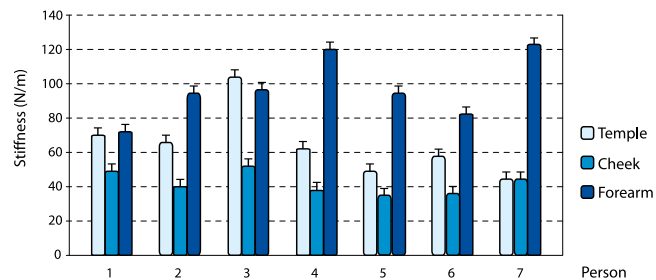
ELASTIMETER INSTRUMENTATION AND MEASUREMENT PRINCIPLE

The ElastiMeter consists of a 0.6 mm length indenter, a reference plate and built-in force sensors. The probe head is briefly pressed against the skin surface with a recommended force that is displayed on the screen. The indenter imposes a constant deformation when the reference plate is in full contact with the skin. The skin resists the deformation and the skin's instant elasticity is determined.

This measurement principle is based on the analysis of the biomechanical response of the skin and subcutaneous tissue and it is mathematically modeled using 3D computational FE (Finite Element) analysis. The ElastiMeter may be used either as a stand-alone device or measurement data may be collected wirelessly to the DMC software.

The DMC software allows users to set up individual projects, store and view measurement data and plot the results or export them to other programs for editing.

ELASTICITY ON DIFFERENT SKIN SITES



DELFIN INSTRUMENTS ARE USED
WORLDWIDE IN OVER 40 COUNTRIES
ON 6 CONTINENTS

Manufactured and Marketed by



HEAD OFFICE

Delfin Technologies Ltd
P.O. Box 1199
70211 Kuopio, FINLAND
tel. +358 50 911 1199
info@delfintech.com