



NANOLEQ

INFOSHEET

ElectroSkin

The only high quality textile electrode on the market.

Are you an e-textile brand or manufacturer looking for a durable electrode for ECG, EMG or EMS garments which delivers an accurate signal, also after many washing and wearing cycles? Look no further.

Since 2010 the e-textile market is growing rapidly: Electrostimulation is booming for sports and rehabilitation, fitness tracking for endurance training, ECG acquisition shirts are used in cardiology, safety workwear is trending and large scale patient monitoring will change how medicine is applied in the 21st century. Despite the trend towards the digitalization of textiles, technical hurdles have been holding back this market. So far, none of the commercially available textile electrodes provide high quality signals under movement or after many washing and wearing cycles. Furthermore, electrical connections on textiles require a complex production process. The electronics and textile industries did not merge successfully yet.

Nanoleq created ElectroSkin, a hybrid polymer-textile electrode solution. ElektroSkin combines a biocompatible surface with optimal skin impedance and excellent signal quality. It is comfortable and can be used in a dry state (without wetting). ElectroSkin is ultrathin, elastic and still performs outstandingly after many times washing and wearing. It can be integrated onto garments in a one-step lamination process. Connecting ElectroSkin is fast and reliable thanks to a smart connection interface. Textile manufacturers can now easily form electrical connections, without electronics expertise and without the need for crimping or soldering.

Be part of the future with ElectroSkin.



Biocompatible according to ISO 10993-10

high washability



100X

high SNR



ultra flexible



2 elasticity grades available

light



increased skin adhesion



GECKO option available

easy lamination & connection



ElectroSkin SENSE

ElectroSkin SENSE is optimized for a minimal skin impedance and maximal signal quality, without the need for wetting and after many times washing and wearing.

ElectroSkin SENSE GECKO

ElectroSkin SENSE GECKO comes with increased adhesion so that overtight shirts can be avoided once and for all.

ElectroSkin STIM

The skin contact surface and elastic modulus of ElectroSkin STIM is optimal for comfortable electrostimulation for long lasting e-textiles.

ECG



EMG



Electrostimulation



EEG

