

What Does It Measure?

The Frictiometer FR 700 is a quick and useful tool to measure the **differences in friction on the skin** in correlation to skin properties or products applied to the skin.

The Measuring Principle

The probe contains a motor, a steering unit and the friction head. A constant rotational speed (adjustable to different speeds) is applied onto the skin by the smooth teflon friction head. The **torque** is measured and the result is displayed as Frictiometer units.

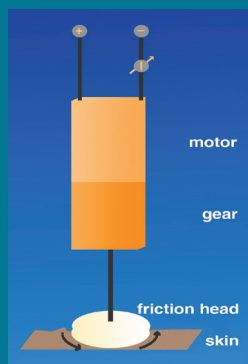
Fields of Application

- With the Frictiometer, it is possible to assess **skin surface properties**: e.g. normal, dry, rough or scaly skin as well as skin with or without wrinkles will show different values.
- For **testing of skin care products** making the skin smoother, leading to lower Frictiometer values. Different formulations will also show different values. W/o emulsions decrease the frictionary resistance more than the o/w emulsions.
- Evaluating **effects of textiles and paper tissue** products on the skin (e.g. diapers, paper handkerchiefs, toilet paper etc.). For testing, the material is pulled over the friction head and fastened. The higher the frictionary resistance, the higher the irritation potential on the skin. It is possible to study e.g. the effects of untreated tissues on the skin in comparison with

tissues treated with additives.

Advantages

- **Constant pressure** on the skin by the weight of the rotating disk
- **Different velocities** of rotation can be set.
- Measurement on different **surfaces** possible, e.g. textiles, plastic, metal and many more.
- Quick measurements as well as **continuous** measurements over a longer time.
- The probe head can be **easily cleaned**.
- The **irritation effects** from the tests with textiles or paper tissues can be determined with other C+K testing methods e.g. the erythema with the Mexameter®.
- Available for C+K **MPA-systems** and as stand-alone device (**MDD**).



Technical Data

Dimensions: 2.4 x 12.8 cm; Measuring surface: 16 mm (plain teflon head); Weight: 140 g;
 Pressure: 0.7 N; Units: Arbitrary Frictiometer units, Measurement uncertainty: $\pm 10\%$
 Measurement principle: torque
 Technical changes may be made without prior notice.

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