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## Sleeping Bag Tests

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### Objective:

Sleeping bag tests include measurements of effective thermal insulation and determination of temperature range of utility of sleeping bags. To simulate realistic sleep situations a thermal manikin is used.

### The test is particularly well-suited for:

- Sleeping bags of any shape (mummy, egg, rectangular)
- Sleeping bags with down, synthetic or other fillings

### Description:

Testing of sleeping bags is carried out according to EN 13537 and EN 13538, parts 1 and 3 (consumer-relevant characteristics).

The thermal manikin is used to determine extreme, limit, comfort and (optional) maximum temperatures for a sleeping bag. Another optional assessment is "breathability" of the material using the Skin Model according to EN 31092 and/or ISO 11092.

### Advantages for you as the customer:

- Independent proof of quality
- Consumer safety
- Product optimization during development

### Labels and certificates:

Confirmation of compliance with the standard by rating the sleeping bag with extreme, limit, comfort and (optional) maximum temperatures according to EN 13537

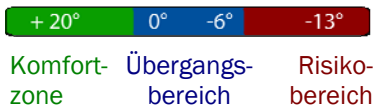
### Requirements for test samples

#### Amount of material:

- A sleeping bag fitting a person with a body height of 1.80 m.
- For the measurement of "breathability" the sleeping bag has to be cut up.

#### Duration of testing:

- Dependent on the amount and nature of the material (10 working days as a rule following receipt of test sample)



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