



# USER MANUAL

# EKOind

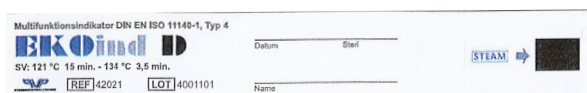
# Batch control

# Indicators for routine monitoring of steam sterilization processes according to DIN EN ISO 11140-1:2025

## Application notes

The EKOind D indicators react to steam quality, temperature and exposure time and are therefore suitable for routine monitoring of steam sterilization processes.

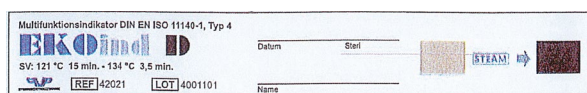
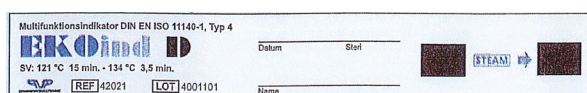
The indicators are assigned to type 4 in accordance with DIN EN ISO 11140-1:2025.



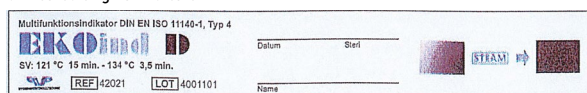
### Specification

Please refer to DIN EN ISO 15882:2008-12: "Sterilization of health care products - Chemical indicators - Guidelines for the selection, use and interpretation of results, paragraph 6.3" and proceed as follows:

1. Place the indicator at points in the container or sieve that are suspected to be the most difficult for the steam to reach.
2. Care must be taken to avoid direct contact with the items to be sterilized. If necessary, the indicator should be placed separately in sterilization foil for protection. The indicator field should face the paper side to prevent the formation of a barrier. This also applies to unwrapped items to be sterilized.
3. The number of indicators depends on the size of the sterilizer and the load. Enough indicators must be used so that each container or sieve can be evaluated.



## Untreated original indicator



### Fully reversed indicator

Interpretation: Proper process flow

### Rating

The EKOind D indicator changes color in stages from brown/grey to black when exposed to steam, i.e. the color change is in direct proportion to the duration of exposure to steam.

The tests were carried out in accordance with DIN EN ISO 11140-1 at a SV of 134°C/3.5 min and a SV of 121°/15 min.

### Storage conditions

After removal, reseal the pressure seal bag to ensure shelf life under the storage conditions specified on the label.

The sterilized indicators can be documented. Discoloration does not occur under the same storage conditions as specified.

