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## SynShield® Type 4

Copper foil fully covered with SynTherm® insulating material.

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### Attributes

SynShield® copper conductor is a flexible copper foil laminated with various insulating materials.

SynShield® is just perfect for winding. There are two production methods for SynShield®:

- The insulation is applied during a special process without adhesive. This process guarantees excellent soldering behaviour and a low total strength.
- The insulation is applied with the aid of an adhesive.

Formats:

- with soldering gap
- types without adhesive: PET films
- types with adhesive (SynTape®):
  - PET films
  - aramid papers
  - PI films

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### Application

SynShield® is mainly used in transformers and can be applied as electromagnetic or electrostatic shielding between the primary and secondary winding. SynShield® is also used as a replacement for enamelled copper wires.

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### Standards

- Thermal class, B, F, H (depending on insulation)
- UL-file-no. E301705 (only SynShield® with PET)

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### Delivery forms

100 and 200 m rolls with 76 mm core.

Other dimensions and lengths on request.

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### Conductor

Copper foil of at least 99.90 % Cu and with a high or even high electrical conductivity.

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### Additional information

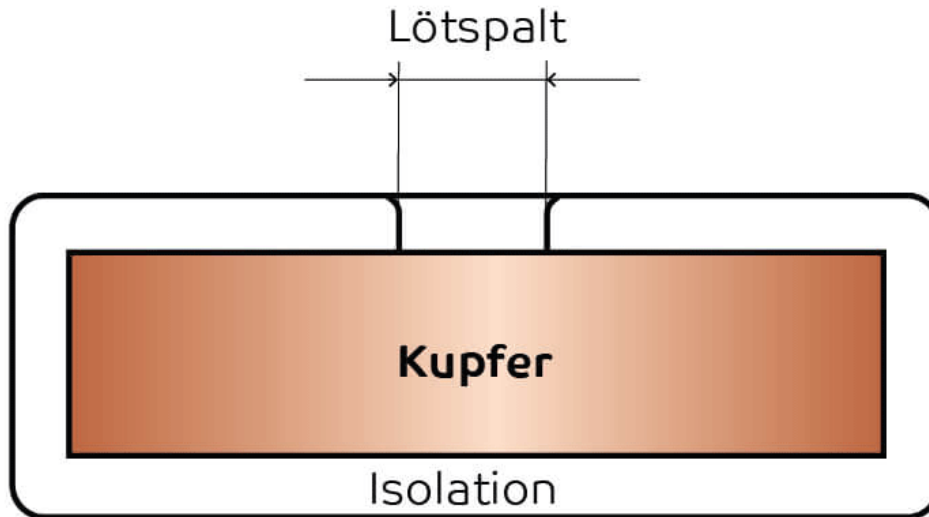
\*Values are typical values of the individual unprocessed foil.

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Updated 07/19



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[Translate to English:]

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| General           | Unit of measure | Copper      | PET   | PET (Adhesive) | Aramid paper (adhesive) | PI-film (adhesive) |
|-------------------|-----------------|-------------|-------|----------------|-------------------------|--------------------|
| Width             | mm              | 6-50        | 6-50  | 6-50           | 6-50                    | 6-50               |
| Backing thickness | mm              | 0.035-0.300 | 0.030 | 0.023          | 0.050                   | 0.025              |
| Total thickness   | mm              |             |       | 0.060          | 0.100                   | 0.060              |

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