

Title (en)

METHOD FOR MANUFACTURING A LOW TENSION COIL FOR TRANSFORMERS

Publication

EP 0165435 B1 19871125 (DE)

Application

EP 85105657 A 19850508

Priority

DE 3418823 A 19840521

Abstract (en)

[origin: EP0165435A1] 1. A method of manufacturing low-voltage coils (5) for transformers made of strip material (15) rolled up in a spiral with insulating interlayers (16) and with a casting (17) made of casting resin on each of the two annular end faces, characterized in that a solvent-free mixture of polyepoxy and polyisocyanate resin, known per se, serves as the casting resin ; that this mixture is hardened within a few minutes of being poured onto each end face by the addition of a reaction accelerator at room temperature, to a self-supporting annular casting (17) which can already be mechanically loaded at room temperature ; that the hardened castings (17) of the same coil (5) are both further hardened simultaneously at 100°C to 140°C, so that they can also be mechanically loaded at elevated temperature ; and that the further hardened castings (17) on the hardening temperature being exceeded in the course of operation by raising of the glass transition temperature (glass transformation temperature), harden further without softening.

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