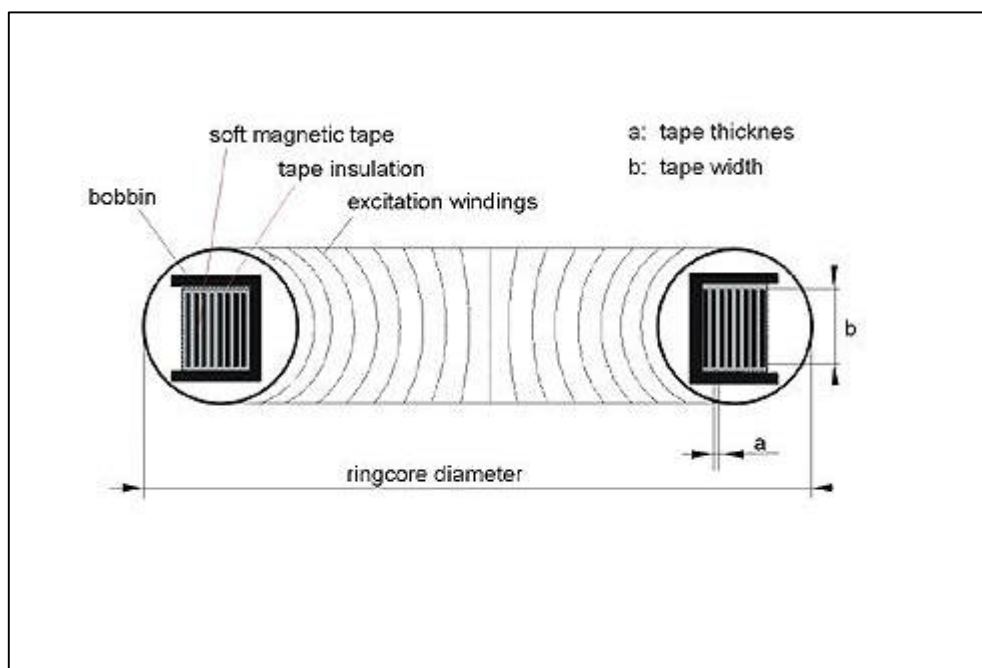


Ringcores

MAGSON ringcores are based on a special 6-81-Mo permalloy material. Fabrication techniques were developed in co-operation with the Max Planck Institute for Extraterrestrial Physics and the Technical University Dresden. Ringcore parameters like width and thickness of the soft magnetic tape, tape isolation, tape adjustment, the number of windings, the diameter of the ringcore, the timing and temperature of the thermal process and advanced technologies for fixing of the tape were optimised to improve the ringcore characteristics. Ringcores with the following parameters are available in MAGSON fluxgate magnetometers:

ringcore diameter	number of windings	band width	band thickness	noise at 1Hz
13mm	6	2mm	20 μ m	5pT/ \sqrt Hz
18mm	7	2mm	20 μ m	5pT/ \sqrt Hz
24mm	7	2mm	12 μ m	2pT/ \sqrt Hz



Structure of MAGSON ringcores

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