

APPLICATION SHEET

CUT 'N' SEAL

FILTER INSERT WITH EDGE BEAD



■ The task

A round filter insert with a diameter of 110 mm and consisting of a number of non-woven layers is to be produced from flat raw material. The insert must have a retaining bead around the edge for holding the insert in the component. In addition, the cut edge has to be neatly sealed in order to prevent fraying.

■ The solution

This type of filter insert with its complex production technology requirements can be successfully produced using ultrasonic cut 'n' seal technology. In this process it is possible to simultaneously combine welding, cutting and sealing functions. In the first step of a 2-stage process the retaining bead is welded on the inside and in the second step the filter is punched out and the edge sealed at the same time.

■ The advantages

The ultrasonic cut 'n' seal process is an interesting production method from the cost-efficiency point of view, which can meet all requirements for the finishes of the edge zone. The process is reliable, can easily be automated and offers various options for quality control.



The application has been produced using a USP8000 welding system with appropriate 2-stage process tools.

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