

S1.6.3 COMBI MEDIA - AMALGAMATING TWO TECHNOLOGIES

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A rare combination of low pressure drop along with required efficiency can be made possible by combining two technologies together; while one is providing stability and required thickness to the media other is helping achieving efficiency level.

Technology which was applied to make novel media is Needle Punch and Spun Lace. Coarser denier fiber has been used in the needle punch layer and spun lace layer was made out of finer denier fiber. At the same time gradient was also created during the manufacturing process.

Final substrate was made on our Spun lace technology, which happen to be a patented line from one of the prominent European machine manufacturer.

Lab trials against the conventional media shown positive results in terms of efficiency and pressure drop, even reducing the weight by 30 - 35%.

Work on to increase efficiency and dust holding capacity up to a significant level against conventional media is going on and initial prototypes exhibits encouraging results.

One significant objective which was fulfilled by this media is reduction in overall weight of the component which is in line with the present day requirement of lightweight and smarter vehicle.