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Warp Knitting | Spacer Fabrics

Wednesday, September 09, 2009 [DOUBLE NEEDLEBAR](#) [1 comment](#)

Manufacturing Methods and Applications

During recent years,spacer fabrics have become a new generation among textile fabrics.From the technology point of view,they are not quit new,they practically have existed since 15 years,however they have gained commercial importance since a few years only.

Conventional textile fabric do not meet the brilliant features of spacer fabrics or only as a compounded fabric combination.Therefore spacer fabrics were in short time successful in getting market share as substitutes for laminates,in sports and safety wear,as basic construction for composites.for filter and in the medical field.



Spacer fabric are warp knitted double face construction of which both fabric faces are interconnected by the spacer yarn.

Both fabric face can be equal or different,of dense structure,plain or patterned with small design or with a napped surface on one side.

Both faces or only can be of open structure,even with different mesh size on each side.By the choice of stitch construction,spacer fabric can be almost stable but also of controlled stretch used elastic yarn.

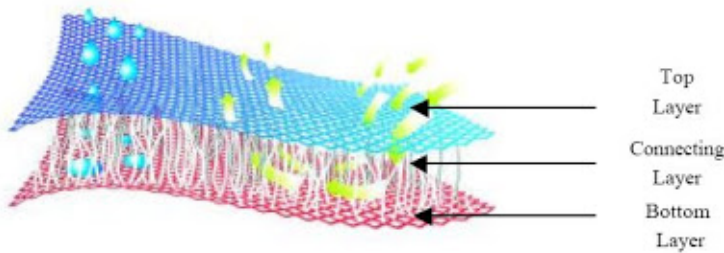


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For connection of both fabric generally mono filament yarn is used. The thickness of the spacer yarn depends amongst other criteria on distance between the fabric space and whether the space is knitted with one guide bar or with two guide bars each one knitting in opposition to each others.

Spacer fabric are knitted on warp knitting raschel machines with two needle bars. Depending of the product and its requirement, a minimum of four guide bars normally, however five to seven guide bars are in use. The distance between the needle bars is adjustable in certain ranges and is different for the various machines types for knitting spacer fabrics.

Possibilities face structures on spacer fabrics

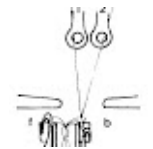


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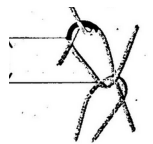
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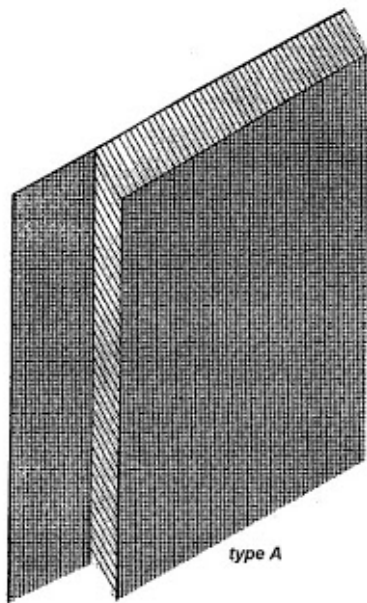
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Type A

Dense and plain, one or both faces can be combined with type B or C.

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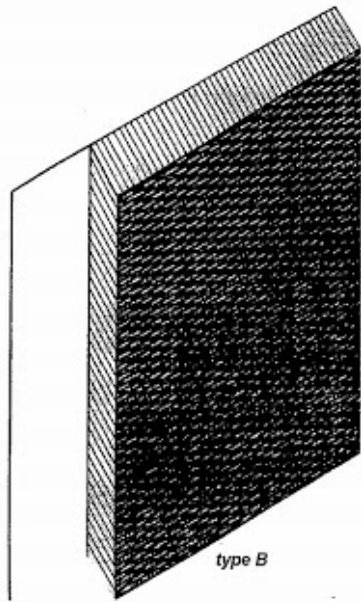
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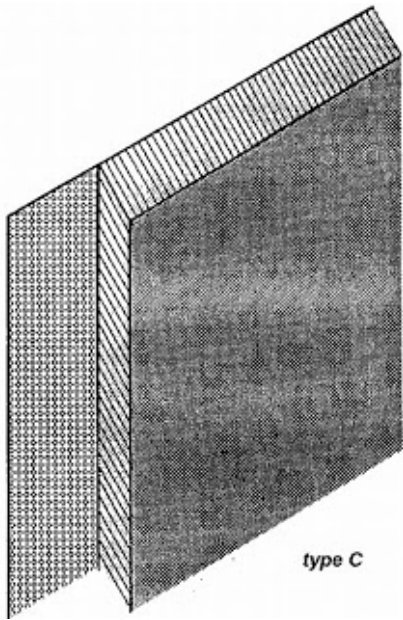
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Type B

Dense and with overall motifs, one or both faces can be combined with type A and C.



Type C

Small open structure, one or both faces can be combined with type A or B.

Type D

Dense structure with additional dimension for napping on one side, rear side dense or semi dense grid structure.

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