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Conclusions Gomposite group
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• The higher the number of cropped sub-volumes, i.e. the higher the number of artificial boundaries introduced into the domain, the lower the predicted permeability is.
 Calculating the permeability of the entire sample by this renormalization approach can be a good solution if the number of sub-volumes is not too high and in cases where the computational resources are limited in terms of memory or time.
• The minimal number of sub-volumes (10) used in the benchmark study resulted in only 15% deviation from the cluster average value.
DARCY HOMOGENISATION
 Darcy homogenisation of subdomains is very close to the analytical "arithmetic – harmonic mean" Analytical averaging cannot represent the skew terms of K tensor; Darcy can.
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