



spgprints®

RandomScreen® Eco

an advancement of the
125 mesh screen.

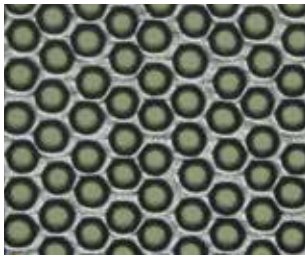


Fig.1 Structure of a RandomScreen® Eco - 125 mesh

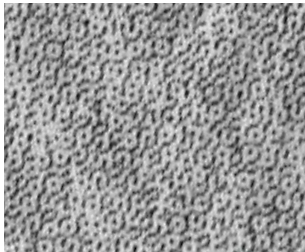


Fig. 2 Moiré effect printed with a 125 mesh screen.



Fig. 3 Moiré free print with a RandomScreen® Eco - 125 mesh

With the new RandomScreen® Eco 13% open area we provide you with the easiest route to an increased eco conscious printing result. Changing your current 125 mesh screen into RandomScreen® Eco will offer you paste savings up to 25%. All can be achieved without changing any process parameter like rod size and viscosity. You only have to change the screen. This applies also for the engraving parameters for halftone rasters.

Pigment printing

The conical dams of this screen are known from NovaScreen® printing. They allow adjusted surface printing for less add-on and more brilliant shades. Less application of binder provides a soft hand and a better rubbing fastness. Paste savings of up to 25% against a normal 125 mesh screen are possible with pigment printing. The flow properties of the hole structure reduce the risk of blockage by binder during printing.

Reactive printing

Flow properties of the screen holes allow to maintain just the right penetration of paste to the fabric. It compensates undesired white spots caused by thread twisting during washing and it avoids too much penetration for more efficient washing off and therefore higher washing fastness. The orientation of the holes is featuring a random structure by keeping the same resolution as of a PentaScreen® 125 mesh. Also with reactive printing, when using the RandomScreen® Eco, substantial paste savings can be realized.

Suppress moiré

Additionally the RandomScreen® Eco will suppress so called moiré effects. Moiré is an effect that occurs, when two regular structures interfere and thus a new, third pattern is created. This can happen when a screen's regular mesh structure and a halftone raster structure meet. To avoid these moiré effects, the holes in a RandomScreen® Eco are not aligned on straight lines as with the standard PentaScreen®. The position of each hole is just slightly out of line and therefore there is no risk of raster's interference (as shown in figure 2 and 3).

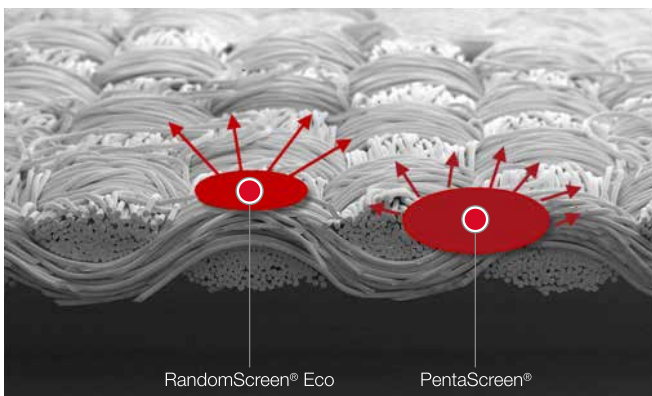


Fig. 4 Different penetration level between RandomScreen® Eco and PentaScreen®

Comparison RandomScreen® Eco and PentaScreen® 125 mesh

RandomScreen® Eco enables you to print more on the surface and is thus more economical than penetrative printing because it needs a lower amount of paste.

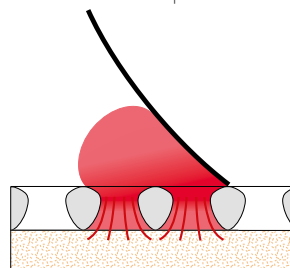


Fig. 5 RandomScreen® Eco

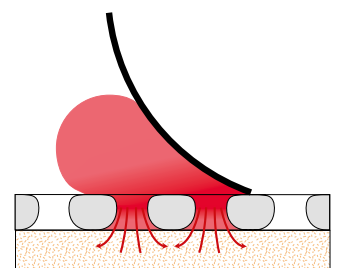


Fig. 6 PentaScreen®

Global network assuring the highest levels of support

Thanks to our global presence, we understand local market needs and leverage our strengths through an international network of global manufacturing facilities and a distribution foothold in more than 100 countries. We set industry standards in technology, product performance and service.

For further (contact) information, please visit www.spgprints.com

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