

spgprints®



Effect printing

Fighting the challenge of big particles.

ST30

ST30 E0 - Extra Open Area

Blockage of the screen

Special printing effects are often generated by special pigments. They are shiny, sparkling, cooling or changing their colours on temperature or UV-light. Those Pigments are sometimes much wider and taller in size than regular pigments used for textile printing. Also, hotmelt granulate is used in printing paste systems for bonding effect materials to the surface of textile, such as metallic foil.

All those pigments need special applications and require screens, which allow the transfer of those particles through the screen to the fabric. A screen with holes too small can be considered a filter. Some smaller particles may pass the screen holes together with the paste, other are sieved and collected in front of the squeegee blade, or in case of a magnetic rod, squeezed together and forming bigger particles.

The result will be stripes in the printed image and finally blockage of the screen.

It is not even the size of one single pigment, which is determining the applicability. Depending on the shape and amorphous character of the particles, they tend to stick together and form much bigger conglomerates.

The solution

Printing those pigments requires a screen, which is not found in the regular range of textile printing screens. The hole diameter must be as wide as possible to allow an easy transfer of those particles. But it must be as narrow as necessary to prevent un-controlled release of printing paste out of the screen. Finally, it must be possible to apply a coating on the screen for engraving.

Taking these requirements into consideration, SPGPrints is offering two different Effect-screens. Both screens have the same mesh size but distinguish themselves in the open area and therefore in the hole size. Depending on the particle size and concentration of the pigments to be applied the 28% ST30 version with a holesize of 470 microns or the 60% ST30 EO version with a holesize of 656 microns can be selected for a problem free application.



Technical specifications

ST30/150/28%

Standard packaging unit: 1
Repeat: 64 and 91,4
Mesh: 30
Thickness (µm): 150
Open area (%): 28
Hole size (µm): 470

ST30 EO/120/60%

Standard packaging unit: 5
Repeat: 64 and 91,4
Mesh: 30
Thickness (µm): 120
Open area (%): 60
Hole size (µm): 656

Benefits

- Extreme hole size
- Huge open area

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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