

# SAATILENE HI-FORMAT

Saatilene Hi-Format is a high modulus, low elongation monofilament polyester screen printing fabric with a proprietary surface treatment, developed to meet the requirements of high-end and large format applications.

Especially designed to optimize the deposit when printing with UV inks, this new product range was constructed starting from state of the art materials and weaving techniques.

Moreover, this mesh will allow you to further improve print quality and productivity of the newest computer to screen engraving technologies.

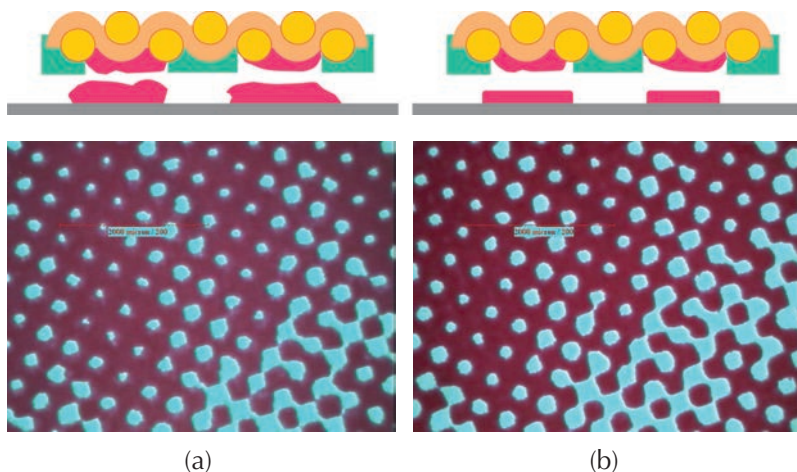


Image 1:  
Standard item 150 mesh count (a)  
vs Saatilene Hi-Format 150 mesh count (b)

## PRODUCT KEY CHARACTERISTICS:

- Excellent mechanical behavior.
- Low elongation.
- Optimized mesh geometry and precise mesh openings due to improved production process.
- Long lasting surface modification thanks to vacuum plasma treatment.

### YOUR BENEFITS:

- Top printing quality
- Quality consistency during all printing run resulting in an increased process reliability
- Decreased tension loss during all the print run
- Finer image resolution
- Better printability
- Improved ink flow
- No degreasing pretreatment step prior to stencil processing, thanks to SAATI unique vacuum plasma surface treatment
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Less dot gain, resulting in a better defined and clearer print

### INCREASED PRODUCTIVITY:

- Consistency
- Less dot gain
- Improved ink flow
- Decreased tension loss

### Saatilene Hi-Format product range

MESH COUNT	THREAD DIAMETER	WEAVE	COLOR	184-189,9	210-215,9	232-235,9	252-256,9
<i>cm/inch</i>	<i>μ</i>						
140/355	33	PW	W,Y	X	X	X	X
150/380	33	PW	W,Y	X	X	X	X
165/420	31	PW	W,Y	X	X	X	X
165/420	27	PW	Y	X	X	X	X
180/450	27	PW	Y	X	X	X	X

PW: Plain Weave (1:1), W=white, Y=yellow

### Technical Data

MESH COUNT	NOMINAL THREAD DIAMETER	MESH OPENING	OPEN AREA	FABRIC THICKNESS	THEORETICAL INK VOLUME	SPECIFIC CROSS-SECTION	MAXIMUM RECOMMENDED TENSION FROM-TO
		<i>μ</i>	<i>%</i>	<i>μ</i>	<i>cm³/m²</i>	<i>mm²/cm</i>	<i>N/cm</i>
140/355	33	32	20	49	10	0.120	26-28
150/380	33	26	15	49	7	0.128	27-30
165/420	27	24	25	45	11,25	0.094	17-21
165/420	31	25	17	41	7	0.125	24-26
180/450	27	19	18	45	8,1	0.103	18-22

The above data are average values measured on piece-good in relaxed state, manufactured with yarns of a perfect nominal diameter (cfr. international standards), under normal hygrometric conditions (20°C=68°F, 65% relative humidity). They are subject to normal variations up to 7% if conditions vary from those stated above.

Saatilene Hi-Format product range will be continually updated.