

Hi-Dro[®] Mesh

Surface Treated Mesh For Water-Based Ink Printing

SAATI Hi-Dro is a high modulus, low elongation monofilament polyester screenprinting fabric with a proprietary surface treatment developed to meet the requirements of garment printing application. Especially designed to optimize the deposit when printing with water base inks, this new range was constructed maintaining the same mesh count and using thinner thread diameters.



Key Products Characteristics

- Optimized mesh geometry and precise mesh openings due to the improved production process
- Excellent antistatic property
- Long lasting surface modification thanks to plasma treatment.

Your Benefits

- Better printability
- Improved ink flow
- No degreasing pretreatment step prior to stencil processing, thanks to SAATI unique plasma surface treatment
- Excellent coverage on dark garments
- Less stencil cleaning work during printing
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Safe under exposure with all emulsion types: Photopolymer, Dual-Cure, Diazo and Capillary Films
- Excellent for use with abrasive printing conditions, inks and pastes.

Specifications

Article	Mesh Count	Mesh Count	Nominal Thread Diameter	Mesh Opening	Open Area	Fabric Thickness	Theoretical Ink Volume	Specific Cross-Section	Max. recom. Tension
	n°/cm	n°/inch	µm	µm	%	µm	cm ³ /m ²	mm ² /cm	N/cm
PE AM 32.70 PW	32	81	70	245	61	110	67	0.123	24-26
PE AM 43.64 PW	43	110	64	170	53	100	53	0.138	27-30
PE AM 48.55 PW	48	122	55	153	55	90	50	0.185	24-26
PE AM 55.48 PW	55	140	48	125	50	78	39	0.099	25-28
PE AM 62.48 PW	62	157	48	109	46	77	35	0.112	25-28
PE AM 78.40 PW	78	198	40	85	44	65	29	0.098	20-24
PE AM 90.40 PW	90	230	40	68	38	62	24	0.113	20-24
PE AM 120.31 PW	120	305	31	53	40	48	19	0.091	21-24

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. The listed technical specifications, exception made for the thread diameter indicated with its nominal value, are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products. The tension tests are realised with TOP 12 series clamp system and appropriate frames at our laboratories. PW: plain weave (1:1)

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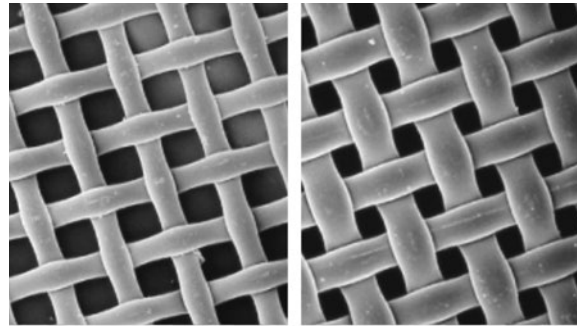
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Hi-Dro

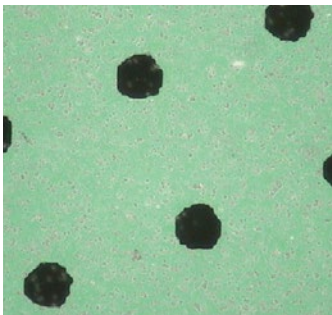
At left: SAATI HiDro 110pw64 vs a standard 110pw80.
Below SAATI HiDro 197pw40 vs a standard 196pw55.

Both examples show the result of two passes with white plastisol ink on a black t-shirt fabric.

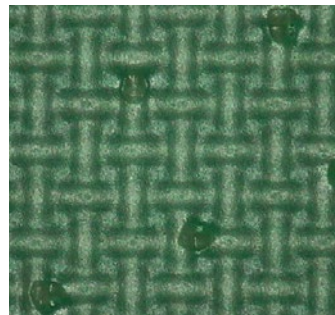


Hi-Dro

Standard Mesh

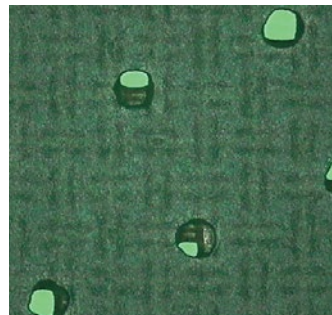


Film Positive
5% halftone dots



Standard Mesh
5% halftone dots

Threads block the openings



Hi-Dro Mesh
5% halftone dots

High fidelity to film positive