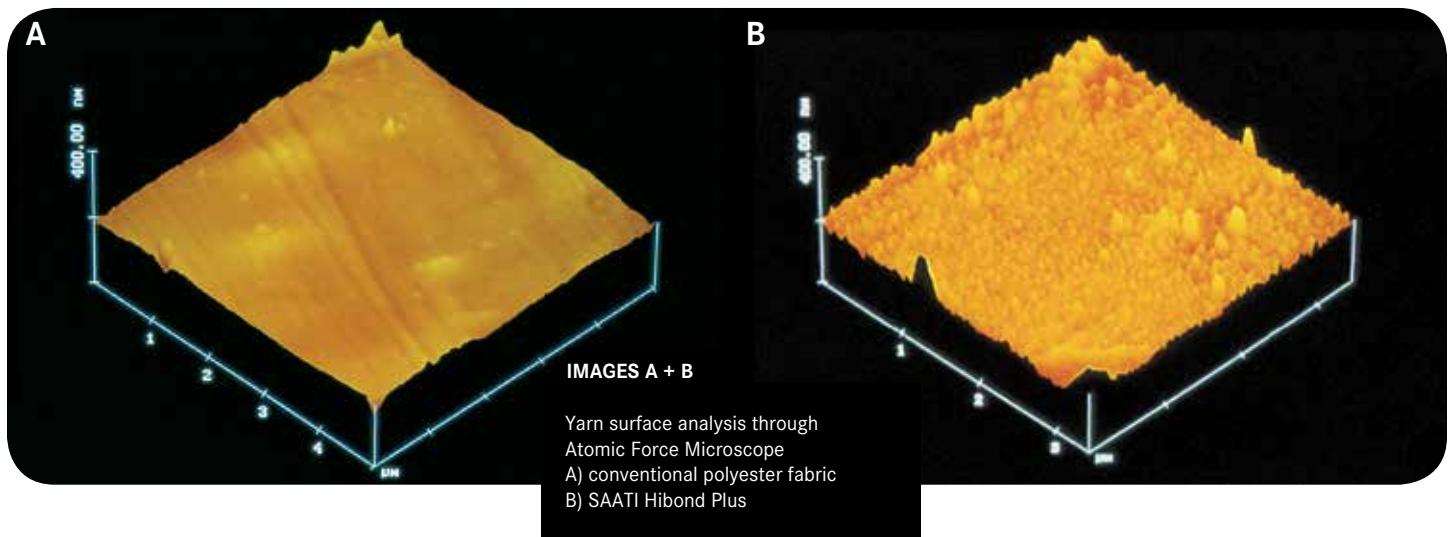


HI-R[®] MESH

Premium Quality High-Tension, Low-Elongation Mesh
With The Value-Added Benefit Of Surface Modification



SAATI HI-R is a high-modulus, lowelongation monofilament polyester screen printing fabric with a proprietary surface treatment ideal for all traditional applications.

KEY CHARACTERISTICS

- High tension, low elongation, optimally performing monofilament polyester
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Shorter exposure times, due to increased stencil adhesion.
- Holds finer detail with no compromise in stencil durability (halftones, fine lines etc.)
- Most cases, no degreasing pretreatment required prior to stencil processing.

BENEFITS OF SURFACE TREATMENT

- Improved adhesion characteristics of small halftone dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- Ready-to-use, the degreasing process can be eliminated

OTHER ADVANTAGES

- Applied to fabrics in widths up to 120"
- Safe under exposure with all emulsion/film types: Diazo, Dual Cure, and Photopolymer
- Excellent for use with abrasive printing conditions, inks and pastes
- Excellent performance on virgin fabric

THE ATMOSPHERIC PLASMA PROCESS

It is a plasma technology that is highly innovative in the field of textiles surface treatments. It is based on a DBD electric discharge (Dielectric Barrier Discharge) where an electrical discharge between two electrodes ionizes the air surrounding the electrodes. This process modifies the fabric surface at a nano scale.

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SAATI Hi-R Mesh Specifications											
Mesh Count		Type Of Weave	Thread Diameter	Mesh Opening	Overall Fabric Thickness		Percentage Of Open Area	Theoretical Ink Deposit		Maximum Recom. Tension	Specific Cross Section
per inch	per cm	TW or PW	microns	microns	inches	microns	%	cm ³ /m ²	in./sq. yd.	N/cm	SCSmm ² /cm
86	34	PW	100	185	0.0068	173	41	71	3.64	35-40	0.267
110	43	PW	80	150	0.0052	132	43	57	2.88	35-37	0.216
125	49	PW	70	130	0.0045	116	40	46	2.28	30-34	0.188
140	55	PW	64	120	0.0041	105	41	43	2.2	26-31	0.176
158	62	PW	64	90	0.0041	106	32	34	1.66	30-34	0.199
180	71	PW	55	80	0.0036	91	33	30	1.53	25-30	0.168
196	77	PW	48	78	0.0031	80	36	29	1.48	24-26	0.139
196	77	PW	55	70	0.0035	90	28	25	1.28	27-32	0.182
230	90	PW	40	68	0.0024	62	38	24	1.23	20-24	0.113
230	90	PW	48	55	0.0032	81	27	22	1.08	27-29	0.162
255	100	PW	40	55	0.0025	64	31	20	1.02	26-28	0.125
255	100	PW	48	40	0.0032	81	16	13	0.66	30-34	0.181
280	110	PW	34	53	0.0022	56	35	20	1.02	22-24	0.099
280	110	PW	40	47	0.0027	69	26	18	0.92	25-30	0.138
305	120	PW	31	53	0.0019	48	40	19	0.97	21-24	0.09
305	120	PW	34	45	0.0021	54	29	16	0.82	24-26	0.108
305	120	PW	40	38	0.0026	67	20	13	0.66	27-32	0.15
330	130	PW	34	39	0.0021	55	26	14	0.71	24-27	0.118
355	140	PW	31	38	0.0019	48	28	13	0.66	20-22	0.105
355	140	PW	34	29	0.0022	56	16	9	0.46	23-26	0.127
355	140	TW	34	32	0.0024	60	20	12	0.61	23-26	0.127
380	150	PW	31	29	0.0019	49	20	10	0.51	22-24	0.113
380	150	PW	34	25	0.0022	56	13	7	0.35	25-27	0.136
380	150	TW	34	28	0.0023	61	17	10	0.51	25-27	0.136
420	165	PW	27	30	0.0018	46	25	12	0.61	17-21	0.094
420	165	PW	31	25	0.0019	49	17	8	0.41	24-26	0.125
460	180	PW	27	25	0.0017	43	20	8	0.41	18-22	0.103

ALL MESH COUNTS, COLORS, AND WIDTHS ARE SUBJECT TO AVAILABILITY.
MULTI-FILAMENT AND NYLON SPECIFICATIONS FOR UNIQUE APPLICATIONS ARE AVAILABLE UPON REQUEST.
CALL 1-800-431-2200 AND SPEAK TO TECHNICAL SERVICE FOR AVAILABILITY