SAATI SAATIS NEW MATERIAL

MAR – Moisture Absorbent Resistant





Saati - Who we are

Saati is a Italian multi-national textile and chemical manufacturer that produces products for the screen printing, filtration, ballistic protection, and advanced composites industries.



Founded 1935 in Appiano Gentile, Italy weaving silk mesh parachutes for Italian Army

2010 – Celebrate 75 years of precision weaving!



Current Applications A fully integrated organization

- Medical
- Automotive
- Appliance
- Electronics
- Industrial and Food Processing
- Water
- Screen Printing
- Chemicals
- Ballistic Materials







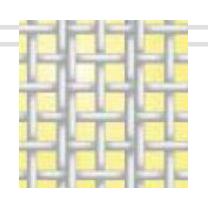


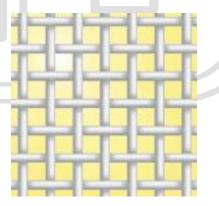




NEW MATERIAL

- MAR[™] Moisture Absorbent Resistant
 - FDA approved polymer
 - Complex finishing/weaving techniques
 - Resistant to humidity changes
 - Maintains Tension
 - Melamine Free

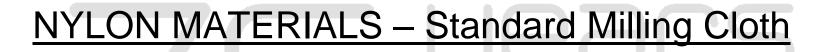








CURRENT PROBLEM TENSION LOSS MILLING CLOTH



High Humidity → Nylon absorbs moisture

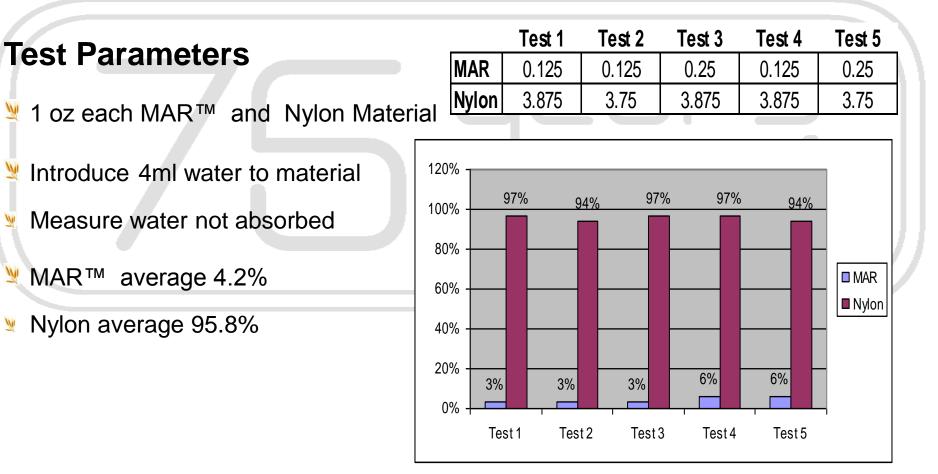
Moisture Absorption → Nylon relaxes, loss of tension

Tension Loss ──── Decrease screening efficiency





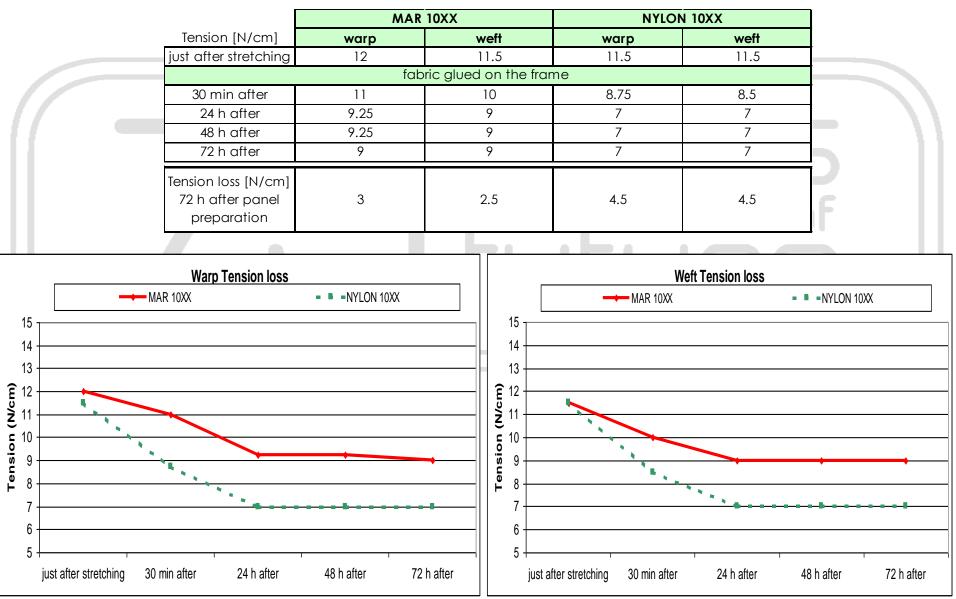
Test Data – Moisture Absorption







Test Data – Tension Loss R&D Facility Appiano Italy



Test data – Tension As reacting to humidity in application

FLOUR MILL PLANT #1 Hard Wheat Section 1st Midds B Stock

Compare MAR 9HT to 9MF

Cut Cloth on Aluminum Stretch and Glue frames

MAR 9 HT

DATE	HUMDITY LEVEL	SCREEN TENSION
INSTALLED	25%	11.5 n/cm
02/05/09	12%	11 n/cm
02/11/09	18%	11 n/cm
03/09/09	20%	11 n/cm

NYLON 9 MF

DATE	HUMDITY LEVEL	SCREEN TENSION	
INSTALLED	25%	11 n/cm	
02/05/09	12%	6 n/cm	
02/11/09	18%	8 n/cm	
03/09/09	20%	6.5 n/cm	





Test data – Tension

As reacting to humidity in application

FLOUR MILL PLANT #2 - Swing Mill Section 1GR2 TFL – 1st Grader Top Flour

Compare MAR 9HT to 9MF

Cut Cloth on Wooden Stretch and Glue frames





Abrasion Resistance - Martindale

Method: UNI 1SO 1297 – 2/2000

Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Determination of specimen breakdown

Instrument: Abrasion Tester Martindale J. Heal – 103

Applied Load: 12kPa

Specimen Breakdown: In woven fabrics breakdown point is when two threads are completely broken

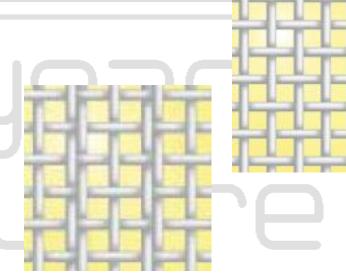
Fabric	Specimen	Cycles (*) to end point	Change in color to end point
	1	198000	
BLM 10 XX - 100% MAR	2	198000	4-5
	3	>200000	4-5
	4	>200000	
	1	>200000	
BLM 10 XX - 100% Polyamide	2	>200000	4-5
	3	>200000	4-5
	4	>200000	

(*) cycle --> one forward and back movement of the abradant holder on a Martindale tester



MAR[™] – Moisture Absorbent Resistant

- Humidity Resistant
- Maintains Tension
- Consistent Throughput
- Increased Efficiency
- Melamine Free



- MAR HT Specifications Available Now
- MAR 10XX Available Now All other XX specs complete by year end 2009





Additional SaatiTech Milling Products

- Milling Cloth
- MBX Frame Surface Cleaner
- Polyurethane Turbo Screens (MKZDs)
- Purifiers Brushes
- Balls, Cubes, Pan Cleaners
- Adhesive, Activator, Remover
- Stretching Equipment







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