



# Ariteks Company Presentation 2018

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 **ARITEKS** 1975  
FUNCTION FOR FLEXIBLE FABRICS

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## **Ariteks Boyacilik Ticaret ve Sanayi AŖ**

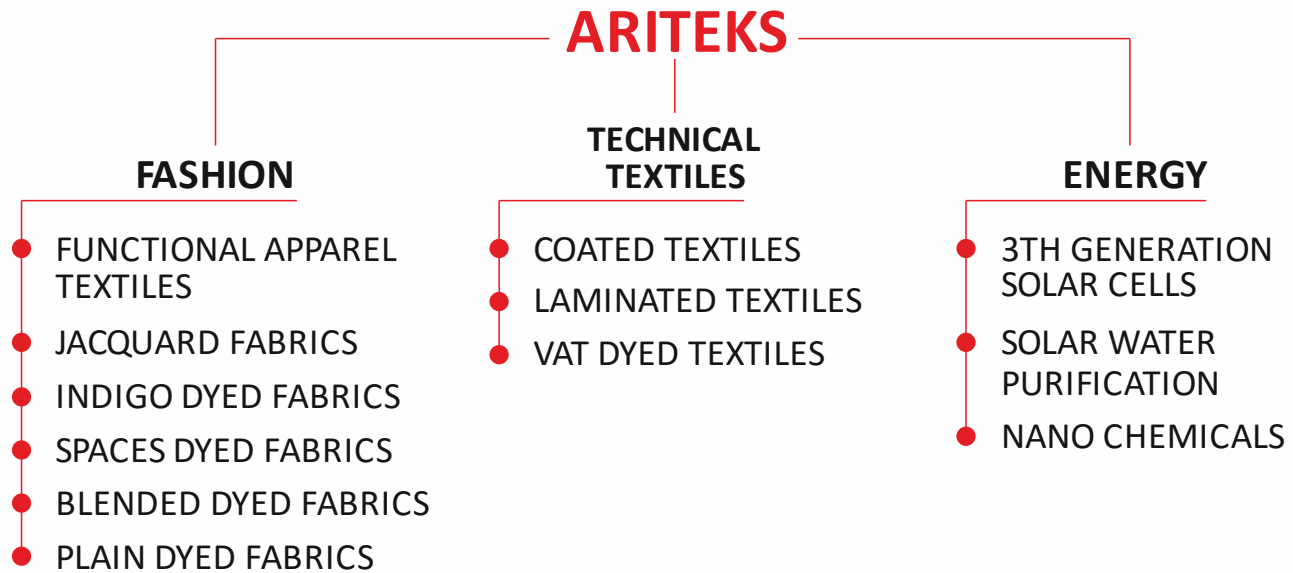
Ariteks, founded as a family owned business in 1975, is the leading textile manufacturer company both in fashion and technical textiles.

By continuously developing high-end technologies it provides solutions to end users in apparel, protective workwear, functional sport ,medical wear as well as technical textiles in construction and transportation industries.

As the pioneer company in special dyeing methods like indigo, vat, space-dye, coating and laminating systems, Ariteks produces highest-quality fabrics both for international and domestic markets.

Ariteks uses clean and renewable energy resources. It consumes minimum amount of water by using continuous optimized systems.

Based in 4000m2 with 12 separate in house R&D laboratories, the company spends %5 of its budget for research and developing future technologies. It focuses especially on 3rd generation solar cells on flexible fabrics and biosensing textiles.



## RD for Textiles

Special dyeing methods for textile fibers  
Sustainable systems about reducing water consumptions and environmental effects.

Workers: 2 graduate

Year: 1975

Location: Istanbul

RD subjects:

- Knit fabric continuous dyeing
- Natural dyeing methods with plant origin's dyes
- Continuous vat dyeing methods

Projects:

> 1501 Tubitak Teydep, Project No: 3120472



**RD Textile Laboratory**



**Ariteks Istanbul Yarn Factory**

## RD for Technical Textiles

Research about building textiles, transport textiles, medical textiles, package textiles.

Workers: 3 graduate

Year: 2006

Location: Tekirdağ

RD subjects:

- Military textiles for night vision protection
- Radiative protection textles
- Antibacterial, uv protection, water repellent, high visible, flame retardant textiles.

Projects:

- > 1501 Tubitak Teydep, Project No: 3120472
- > 1505 Tubitak Teydep, Project No: 5120004
- > 1509 Eu 7.Frame Program, Crosstex, Project No: 9110019
- > Santez, Project No: 0860.STZ.2011-1



**RD Technical Textile Laboratory**



**Ariteks Çorlu Factory**

## RD for Automation

Standardisation on machine electronic components  
Handling of elastic and flexible products via  
robotic technologies

Workers: 1 master degree, 2 graduate  
Build in: 2002  
Location: Çorlu

RD Subjects:

- Complete factory automation
- Profibus systems, plc-driver-pneumatic system integration
- Pc based automation systems, scada systems
- Automated guided vehicles production



**RD Automation Laboratory**



**Control System**

## RD for Thin Film Coating

Photovoltaics textile for military and tents.

Workers: 1 graduate, 3 master degree, 3 doctorate

Build in: 2009

Location: Çorlu

RD Subjects:

- Nano particles
- Tekstil based dye sensitized solar cells
- Transparent conductive textiles for oled flexible screens

Projects:

> 1501 Tubitak Teydep, Proje No: 3110067

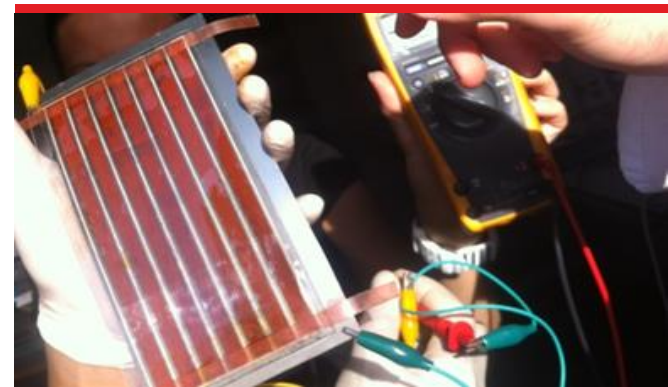
> Santez, Proje No: 00975.STZ.2011-2

> 1501 Tubitak Teydep, Proje No: 3130237

> Santez, Proje No: 0487.STZ.2013-2



**Thin film coating laboratory**



**Textile photovoltaic module  
made in Ariteks**



## RD for Nano Fibers

New inorganic and organic fibers research.

Workers: 1 master degree, 1 doctorate

Build in: 2010

Location: Edirne (Trakya Üniversitesi Teknokent)

Rd Projects:

- Glass and Basalt fibers
- Polylactic acid fibers

Projects:

> Kosgeb, Proje No:2011\4-03

> 1501 Tubitak Teydep, Proje No: 3130315



**Nano fiber laboratory**



**Nano laboratory**

## Ariteks – Universities - Military Co-operations



Prof Dr. Huseyin Avni Öktem

Prof Dr. Rasit Turan

Doc. Dr. Vezir Kahraman

Prof Dr. Ahmet Macit Özenbaş

Doc. Dr. Ferhat Karabulut

Prof Dr. Ali Çırpan

Doc. Dr. Cem Özgür

Prof Dr. Serap Güneş

Prof Dr. Volkan Günay

Doc. Dr. Ceylan Zafer

Doc. Dr. Figen Türksoy

Doc Dr. Namık Ünlü

Doc Dr Elif Parlak

## Textile Fibers

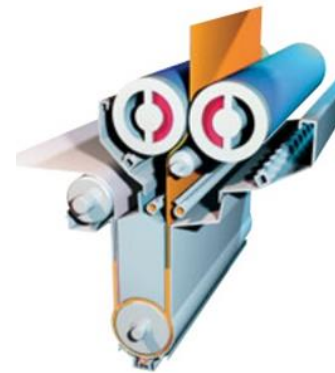
Natural Fibers			Synthetic Fibers			
Organic		Inorganic	Organic		Inorganic	
Plant	Animal	Metal	Natural		Synthetic	Glass Fiber
Cotton	Angora		Celulosic	Protein	Acrylic	Ceramic
Linen	Wool		Viscose	Soya	Polyester	Carbon
Abaca	Silk		Modal	Alginate	Elastane	
Coconut			Acetate	Casein	Polyamide	

Most ecologic fibers is presented in red, they are protetin based fibers from natural origins.

**Ariteks work on till 6 years on biodegradable polylactic acid and casein fibers from plant orijins or from milk.**

**Textile Treatment Machines**

<b>Batch Dyeing</b>	<b>Continuous Dyeing</b>
Rope Dyeing	Pad-Batch
HT Dyeing	Pad-Dry
Jiger Dyeing	Pad-Steam
Beam Dyeing	Pad-Dry-Pad-Steam
	Pad-Sky



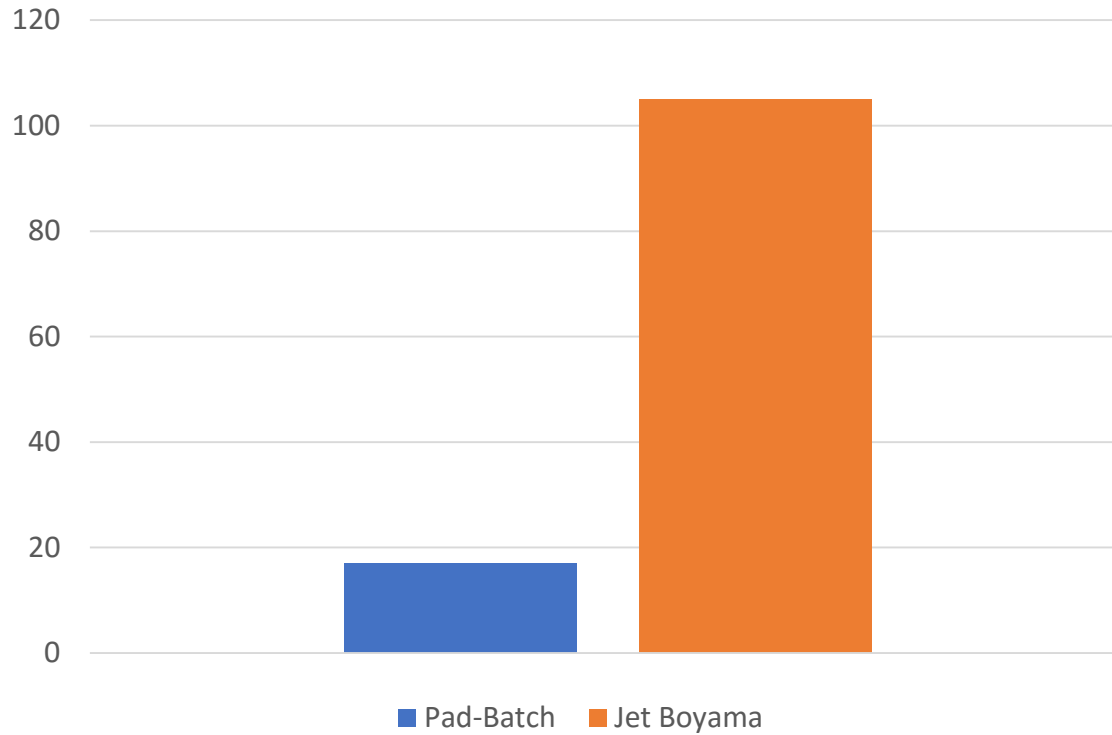
### Consumptions batch versus continuous treatment, Ecological Production in Ariteks

Batch process for Cotton 8% Elastane fabric	Water consumptions for 1 kg fabric	Energy consumptions for 1 kg fabric	Discharge for 1 kg fabric
Rope opening	0	0	0
Pre Fixation	1 litre	40 unit	0
Pre Washing	8 litre	320 unit	8 litre
Bleaching	16 litre	1280 unit	16 litre
Enzymatic Wash	24 litre	960 unit	24 litre
Dyeing	8 litre	320 unit	8 litre
Washing	40 litre	1600 unit	40 litre
Softening	8 litre	320 unit	8 litre
Stentering	1 litre + 2 litre	120 unit	2 litre
Compacting	0	0	0
<b>Total:</b>	<b>108 litre</b>	<b>4960 unit</b>	<b>106 litre</b>

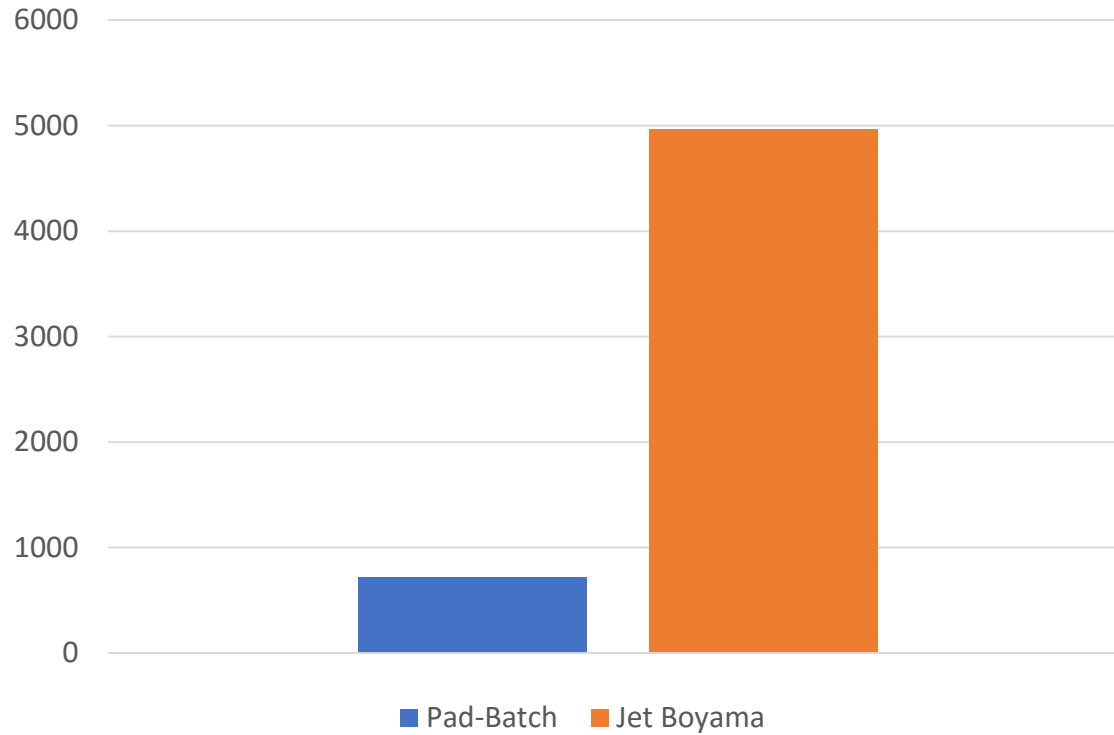
### Consumptions batch versus continuous treatment

Continious process for Cotton 8% Elastane fabric	Water consumptions for 1 kg fabric	Energy consumptions for 1 kg fabric	Discharge for 1 kg fabric
Rope opening	0	0	0
Pre Fixation	1 litre	40 unit	0
Pre Washing	2 litre	80 unit	2 litre
Bleaching	6 litre	300 unit	6 litre
Enzymatic Wash	0	0	0
Dyeing	1 litre	0	0
Washing	5 litre	300 unit	5 litre
Softening	0	0	0
Stentering	1 litre	0	0
Compacting	0	0	0
<b>Total:</b>	<b>16 litre</b>	<b>720 unit</b>	<b>13 litre</b>

### Water Consumptions batch versus continuous treatment

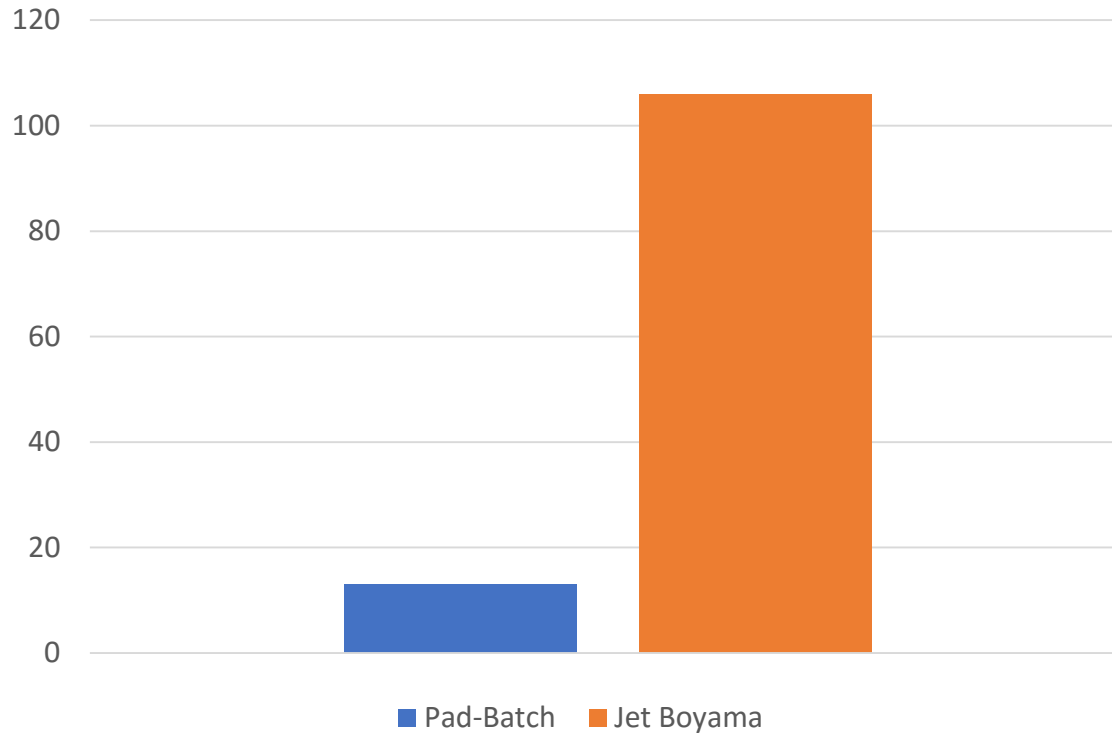


### Energy Consumptions batch versus continuous treatment





### Discharge Water Consumptions batch versus continuous treatment



## The advantages of working 100% continuous

<b>Ariteks work on 100% continuous process</b>
Ecologic textile production
Less water usage
Bright colors
No shade difference
No piling
No batch color difference

**Ariteks Apparel and Fashion Textile Products:**

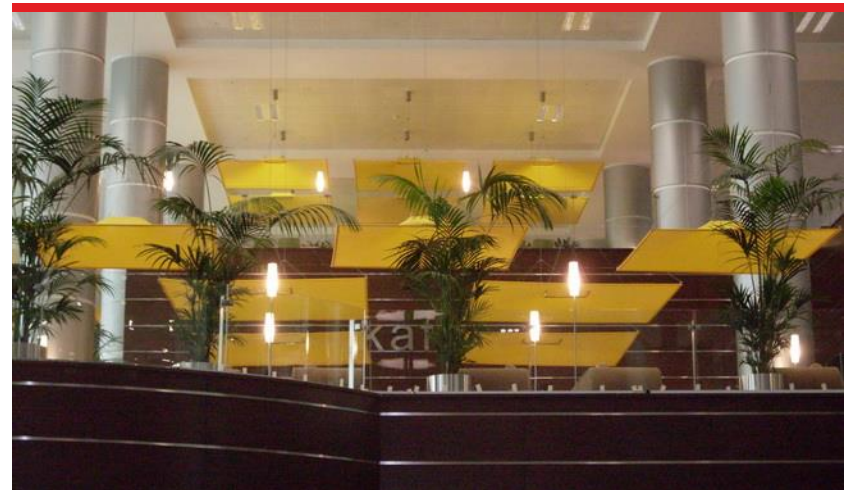
- 100% cotton single jersey, pique, double knit, triple knit
- 100% polyester pique
- 100% polyester polar
- 100% cotton thermo polar
- 92% cotton 8% elastane single jersey,
- 100% Viscose Knit Fabric
- Viscose Blend Knit Fabric
- Viscose Melange Blends Knit Fabric
- Linen and Linen Blends Knit Fabric
- Punto di Roma
- Fluorescent (Neon) Dyed Cotton, Viscose, Linen Knit Fabric
- Sulphur Effect Dyed Cotton, Viscose, Linen Knit Fabric
- Knit Indigo, Indigo Dyed Cotton, Viscose, Linen Knit Fabric
- Velvet knit fabric
- Metallic Coated Knit Fabric
- Full Metallic Coated Knit Fabric

**Denim Premiere Vision**

## Ariteks Technical Textile Products:

### Building Technical Textiles

- **Articulator**  
250 gr/m<sup>2</sup>, 92% Polyester 8% Elastane, Flexible, Dirt Repellent, Antibacterial, Tension Fabric
- **ArFlex Membrane**  
900 gr/m<sup>2</sup>, 28% Polyester 2% Elastane 70% Polyurethane , Flexible Outdoor Membrane
- **ArDigiPrint**  
250 gr/m<sup>2</sup>, 100% Polyester, Flexible Fabric for Digital Printing

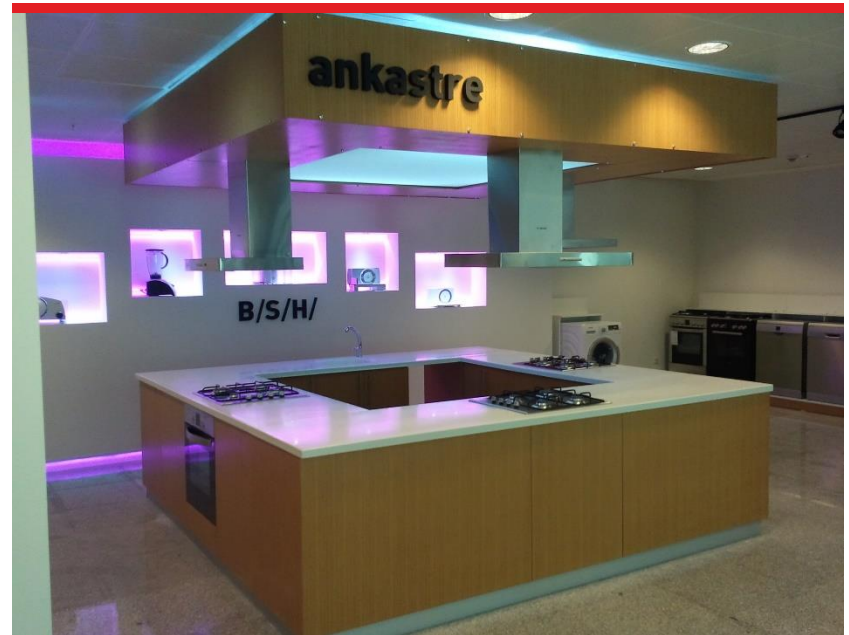


**Turkmenistan Airport**

## Ariteks Technical Textile Products:

### Home Technical Textiles

- **ArDigiPrint:**  
250 gr/m<sup>2</sup>, 100% Polyester, Flexible Fabric for Digital Printing

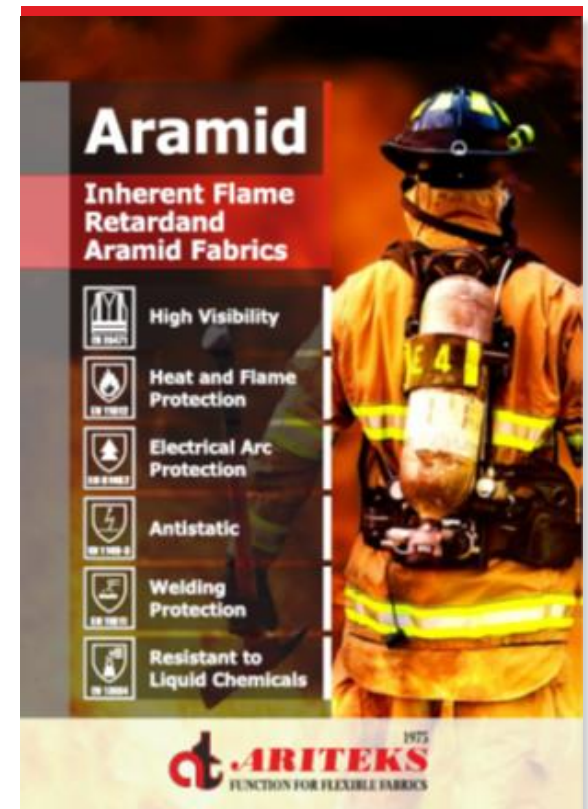


**Kitchen Lighting System**

## Ariteks Technical Textile Products:

### Protection Technical Textiles

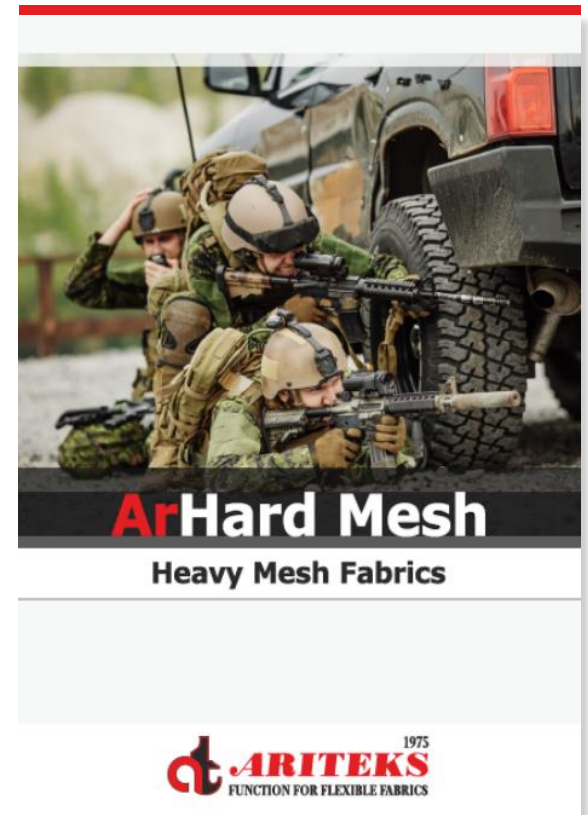
- High Visible Warp Knit Fabrics for Safety Jackets
- 100% Cotton Fluorescent Knit Fabrics
- Modacrylic Inherent Flame Retardant Knit Fabrics
- Woven like Knit Fabrics for Bodywarmers, Jackets and Raincoats
- Economical Twill WorkWear Fabrics
- Antistatic Twill WorkWear Fabrics
- Vat Dyed WorkWear Fabrics Resistant to Industrial Chemicals
- Flame Retardant, Vat Dyed, WorkWear Fabrics Resistant up to 100 Wash
- Flame Retardant, Antistatic, Vat Dyed, WorkWear Fabrics Resistant up to 100 Wash
- Inherent Flame Retardant Aramid WorkWear Fabrics
- Inherent Flame Retardant Modacrylic WorkWear Fabrics
- Polyester Woven Fabrics for Raincoats, Jackets and Coveralls
- Ultra Durable, Ultra Breathable Front Side Polyester Back Side Cotton, PolyCotton Fabrics



## Ariteks Technical Textile Products:

### Sport Technical Textiles

- Track Suit and Light Mesh Fabrics
- Knit Interlock Polyester Fabrics for T-Shirts
- Heavy Warp Knit Fabrics for Shoes and Wind Jackets
- Heavy Mesh Fabrics



## Ariteks Technical Textile Products:

### Medical Technical Textiles

- Medical Fabrics
- Inherent Antibacterial Fabrics (Silver Yarn Integrated)

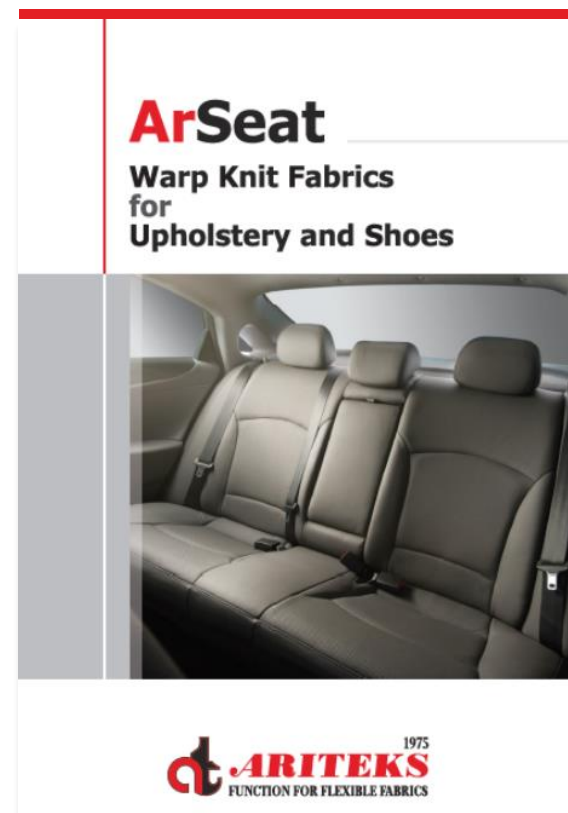




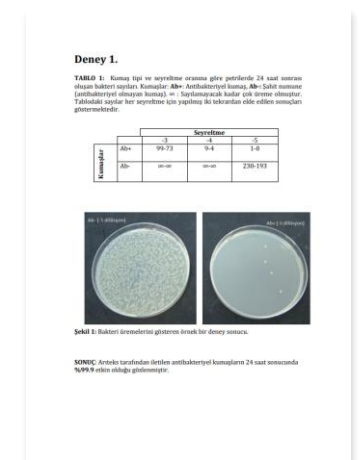
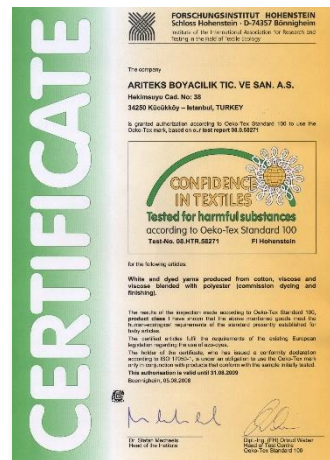
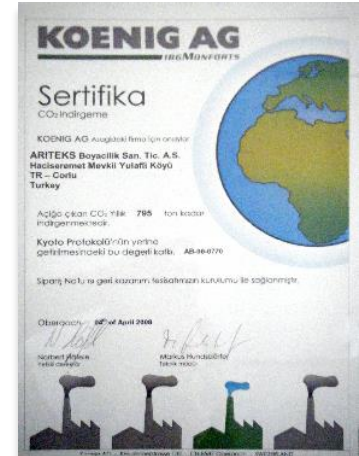
## Ariteks Technical Textile Products:

### Transport Technical Textiles

- Warp Knit Fabrics for Upholstery and Shoes
- 3D Air Mesh Fabrics
- Fabrics For Flags



Ariteks Certificates:



**THANK YOU**