



# Artenafex

Felts and nonwovens in sheets and rolls

# Commitment to our Clients with the goal for the highest satisfaction levels

Founded more than 50 years ago, Artenafex is known as a diversified company finding solutions even in the most complex situations.

Due to a wide machine line, qualified employees and strict quality control, we serve practically all industrial sectors.

## Among our product line includes:

- Industrial pressed and needled felts in several fibers, thicknesses, densities and compositions, such as wool, polyester, polypropylene, aramid and others.
- Technical felt parts, such as rings, discs and strips of regular and irregular shapes, incorporating details such as self-adhesive and special resin impregnation properties.
- Filter elements for gases and liquids
- Synthetic belts and nonwoven roll for coolant oil filtration
- Felts in blankets or technical parts for thermal and sound insulation for electronics and home appliances
- Aramid belts for transporting materials in high temperatures
- Aramid felts for protecting and handling extruded aluminium profiles



## Felts and nonwovens in sheets/rolls

Natural wool pressed plane felt and synthetic nonwovens, needled or spunlaced (hydroentanglement). Composed of natural wool, viscose, polyester, polypropylene, aramid, and others.

### Characteristics

- Calendered material: with this finishing, a smoother and more uniform surface with less free fibers and easier particle release is obtained. The calendaring process also increases density and heat-sets the material, avoiding dimensional changes.
- Singed material: In singing, the superficial fibers are burned, giving a rough touch to the felt. By doing this, the particle release is improved and it helps the cleaning of very ingrained surfaces, when applicable.
- Resin Material: resin eliminates the release of fibers, enabling thinner and lighter materials to become extremely resistant, improving cutting precision.
- Self-adhesive material: one side of the felt can have an adhesive layer applied to it with plastic film. To use it, just remove the film and apply the felt.

### Colors

White, black, gray, blend gray, natural beige (wool), among others.

### Thickness

0.5 to 12 mm (synthetic) / 1 to 25 mm (natural wool)

### Density

0.1 to 0.35 g/cm<sup>3</sup> (synthetic) / 0.2 to 0.56 g/cm<sup>3</sup> (natural wool)



### Utilization examples:

- General lining and protection
- Thermal and sound insulation
- Packaging of fragile products
- Saddle lining

Other materials and characteristics upon request / project

## Materials for protection and conveying extruded aluminium profiles

With almost 50 years experience in the field of needled textiles, Artenafex offers the most complete product line for the Extrusion of Aluminium Profiles. Comprised of belts with or without splices, roller sleeves, strips for cooling racks and spacer bar covers. All with worldwide quality approval.

### Spacer bar covers

- For ageing furnaces and stocking, it protects the profiles from scratches, dents, etc.
- Available in Nomex<sup>®</sup> (up to 215 °C) and Polyester (up to 150 °C), 1.5 and 4 mm thick. It successfully substitutes silicone, cardboard or carpet.

### Belts and Roller sleeves

- Belts with or without splicing, made of high density felts specially treated so they do not unravel or stretch. Available in Kevlar<sup>®</sup>, Kevlar<sup>®</sup> + PBO, Nomex<sup>®</sup> and Polyester, for temperatures up to 550 °C. Thickness from 5 to 10 mm.
- Belts made of PVC and woven polyester, for conveying profiles at temperatures up to 90 °C. Thickness of 2 and 3 mm.
- Roller sleeves made of high density tubular felt, specially treated to avoid abrasion. Available in Kevlar<sup>®</sup>, Kevlar<sup>®</sup> + PBO, Nomex<sup>®</sup> or Polyester, for temperatures up to 550 °C. Standard diameters (internal): 50 mm / 60 mm / 80 mm / 89 mm. Standard tube thickness: 7 or 10 mm. Other measurements upon request.

### Compressed rollers

- No other roller matches the abrasion and cutting resistance of those developed by Artenafex. Due to an exclusive compacting system, it achieves an extreme hardness which increases its resistance and even allows lathing of up to 2 mm of worn surfaces



Compressed rollers

## Felt technical parts

Made of natural wool pressed plane or synthetic felts (polyester, polypropylene, aramid and others. They can be self-adhesive, with or without resins.

### Several kinds of parts, including:

- Felt rings/gaskets for dust/grease sealing, etc.
- Strips
- Irregular-shaped parts

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### Other materials and characteristics upon request.

### Industry Segments

Auto parts, metalwork, mechanical, electronics, home appliances, food and chemical industries.



### Utilization examples:

- Dust sealing rings in clutch bearings, gearbox/motor retainers and damper rods
- Sealing for preventing heat loss in laundry drying.
- Sound insulation of printers.
- Friction and noise insulation in automobiles or machines.
- Floor protection (self-adhesive discs to be applied in table and chair legs).
- Chrome-plated material polishing.
- Lubrication wicks.
- Pen tips.
- Fuel filter for chainsaws.

## Oil Roller Covers

Being composed of compressed and lathed nonwoven discs, they are able to achieve up to 90 Shore A hardness

With a smooth and uniform surface, they provide perfect plate cleaning, drying and oiling.

Artenafex controls the whole manufacturing process, from nonwoven production to the complete recovering of worn rollers.

The client sends the worn roller and Artenafex takes care of the whole process, being responsible even for the disposal of the used covering, which is incinerated by an accredited disposal company.

- Dimensional verification



- Lathing process

# Filter Elements

Used for separating solid particles from gases or liquids, they can be supplied in the form of bags, sheets/rolls, with weight and aperture dimensioned for each application.

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## Industry Segment

Auto parts, metalwork, mechanical, food and chemical industries

## Utilization examples:

- Belts and nonwoven rolls for coolant oil filtration belts (machine grinding, drilling, burnishing, etc.)
- Materials totally free from resins or glues that could contaminate the coolant oil.
- Filter bags for dust-collecting systems.
- Filter elements for vacuum/pressure filters, for chemicals, food, and ores.



Other materials and characteristics upon request / project

# Felts for Laundries

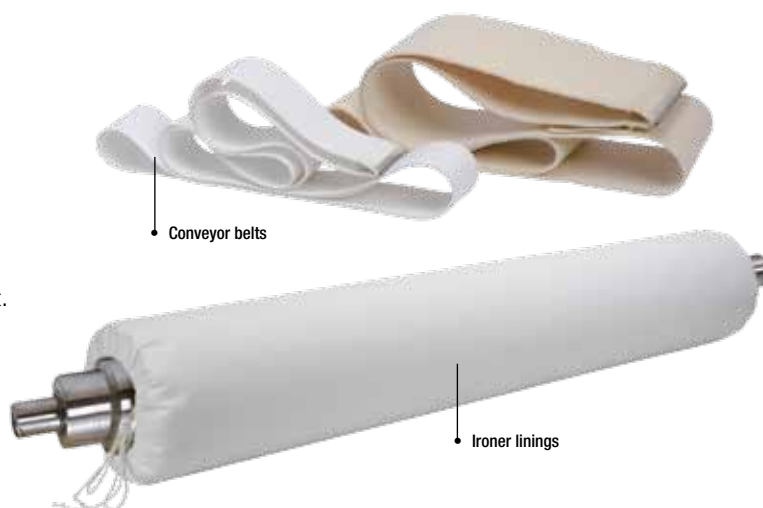
With more than 50 years on the field, Artenafex is now a leader in the manufacturing of covers and linings for professional Ironers and Presses, specially developed for this purpose.

## Advantages

- Higher durability, consequently, less stoppage for replacement.
- Better ironing finish.
- Easy replacement, as our products are custom made for the dimension of your machine; including a practical fastening system.
- Improves aesthetical appearance of the equipment.
- All our materials are 100% synthetic, therefore avoiding the proliferation of fungus, bacteria, etc.
- Our ironer linings have a special finish which helps to maintain clean chutes.

## Linings for Ironers, Presses and Conveyor Belts

- 100% polyester Bidim® linings for up to 130 °C or Aramid linings for up to 210 °C
- White felt covers, with or without strings for fastening.
- Polyester and aramid belts for temperatures of up to 210 °C



Product	Material Description	Thickness	Color	Use
Bidim®	Polyester needled felt (continuous filaments)	Entre 1 e 5 mm	Grey	Linings for ironers and presses
AR/6530	Polyester needled felt, reinforced with a polyester scrim, singed on one side	2 mm	White	Linings for ironers and presses. Also available with a practical fastening system
Gabardine	Polyester gabardine woven	0,3 mm	Blue sky	Ironing press cover. Also available with fastening system
AR/1002	Polyester needled felt	5 a 10 mm	White	Press linings
AR/1004	Polyester needled felt, reinforced with a polyester scrim, singed and glazed on both sides	1,5 mm	White	Conveyor belts for ironers with max. operating temperature of 130° C. Also available with stainless steel fasteners
AR/5300	Meta-aramid needled felt	2 mm	Beige	Linings for ironers and presses with max. operating temperature of 210° C. Also available with a practical fastening system
NO/PE-FV	Meta-aramid/polyester needled felt, reinforced with 2 scrim	3,5 mm	Beige/White	Conveyor belts for ironers with max. operating temperature of 210° C. Also available with stainless steel fasteners



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