Innovative Non Wovens
Made in Spain
about us

DNT Non Woven Fabrics is a new and innovative Spanish business established in 2015 with 100% Spanish funding. It is located in the province of Jaén and is manufacturer of spunbond non woven fabrics.

The main objective of DNT Non Woven Fabrics is to become European benchmark for the manufacturing of high quality 100% pp spunbond non wovens for industrial and agricultural uses. In order to achieve this goal, the company benefits from the following differentiating advantages:

- Modern facilities with cutting-edge production technology.
- Verified quality from raw material to final product.
- Customer service commitment.
- Professional human team committed to excellence in the whole supply network.
- The know-how and support of Diseños NT Group, a group with more than 25 years' experience in the non woven sector.

DNT Non Woven Fabrics aims at satisfying the needs of a demanding market with very specific needs; a market which requires high quality products, short delivery times and a direct, close and professional service.

“Manufacturing in Spain makes it possible to provide service for the European market with better flexibility and promptness.”
facilities

In its facilities located in Alcalá la Real (Jaén), DNT Non Woven Fabrics has two modern polypropylene extrusion lines with cutting-edge technology for the production of non wovens through the spunbond process.

These two lines produce a wide variety of roll widths, weights and colours of non woven which, together with the different types of finishes and treatments available, make it possible for DNT Non Woven Fabrics to offer a supply which meets the specific requirements of any sector or industry.

Our figures:

+ 4,000 m² facilities
+ 2 extrusion lines
+ 5,000 net extrusion capacity/year
+ 65,000 manufactured rolls/year
products

DNT Bond, industry-oriented line and DNT Agro, agriculture-oriented line.
DNT Bond

This production line of DNT Non Woven Fabrics is oriented to the industrial and non woven transforming sectors. Non wovens with a considerable customization capacity are offered thanks to the many colours, printing options, finishes and treatments available.

WEIGHTS
From 10 to 150 g/m²

COLOURS
+ 30 colours available

ROLL WIDTHS
Up to 240 cm.

FINISHES
+20 different types of finishes

CHARACTERISTICS

- 100% first class PP.
- Versatility: adaptable to several activity sectors.
- High elongation: more than 120% stretching before reaching tensile breaking point.
- Mechanical and chemical resistance.
- Non-toxic, non-allergenic.
- Masterbatches suitable for food contact and organic pigments.
- Air permeability.
- 100% recyclable.
- Cheapest alternative in comparison with other materials or fabrics.
+ PRINTING OPTIONS

DNT Non Woven Fabrics has the means to transform its DNT bond product by customizing it with the printing technique which best suits clients' needs. This finishing touch provides an added value for sectors which may require a tailored printing process, such as the advertising, marketing, packaging or design sectors, among others.

1. Flexographic printing

Low cost printing with up to 6 direct colours on light-toned non woven.

CHARACTERISTICS

- **DNT bond** 40 – 150 g/m².
- Up to 6 colours (water-based inks).
- Maximum roll width 125 cm.
- Anti-fade treatment.
2. Printed lamination
Printing with up to 8 colours. Photographic quality and matt or gloss finishing.

3. Silk screen printing
This printing technique offers results with high definition and contrast and is therefore used when customization requires printing very intense colours on dark-toned non woven.

+ OTHER FINISHES

1. Lamination
This technique consists on the adhesion of a film layer which gives the non woven a laminated finish, thus creating a waterproof barrier for liquids.
2. **Waterproofing (Coating)**

This coating creates a waterproof barrier for liquids and bacteria which maintain the ductility of the non woven. It provides high adherence to the non woven and extra resistance to water at the same time.

**CHARACTERISTICS**

- **DNT bond** 40–150 g/m² + 10-micron PP/PE coating.
- Maximum roll width 160 cm.

3. **Double layer**

By using double head extruders it is possible to produce non woven with double layer, using two different colours or additives, one on each side.

**CHARACTERISTICS**

- **2 x DNT bond** 5 – 75 g/m².
- Maximum roll width 240 cm.

4. **Rewinding (with or without slitting)**

Service of rewinding into small cardboard tubes, with the possibility of including transversal slitting at the distance requested by the client so that manually cutting the pieces is easier.

**CHARACTERISTICS**

- **DNT bond** 40 – 150 g/m².
- Roll width 40 – 120 cm.
- Line cutting.
- Inner cardboard tube from 35 - 75 mm.
**Macro - Microperforation**

This process is made with laser or by zones, using rolls for microperforation or pistons for macroperforation. It improves non woven's air and water permeability. The diameter and separation of the different perforations can be adapted according to client's needs.

**Characteristics**

- **DNT bond** 40 – 150 g/m².
- **Microperforation below 1 mm.**
- **Maximum roll width 125 cm.**
- **Macroperforation 6 or 8 mm.**

**6. Cutting and pattern design**

Computer-guided cutting of non woven pieces according to clients' requirements for easier conversion processes.

**Special Treatments**

These treatments increase non woven performance by conferring new functionalities and specific technical characteristics which give an added value to the transformer industry.

- **ST** Soft Touch: Provides a softer and silky touch.
- **AB** Antibacterial: Hinders the proliferation of microorganisms, bacteria and fungus.
- **H** Hydrophobic: Creates a repellent effect which avoids liquid filtration through the fabric.
- **S** Scents: Microencapsulation of fragrances with antibacterial, repellent or aromatic effects.
- **A** Antistatic: Avoids electrostatic accumulation in the material thanks to charge dissipation.
- **R** Flame Retardant: Delays non woven's flammability, making it fire resistant.
- **H** Hydrophilic: Allows liquid filtration through the fabric.
DNT Agro

DNT Non Woven Fabrics has developed a line of non wovens for crop protection and their biological and thermal control. The different additives and treatments available provide maximum harvest output and offer optimal and sustainable solutions for the specific problems of each crop.

+ CROP COVER

Both in open fields and greenhouses, this product guarantees the biological and thermal control of the most delicate crops and improves their quality and output, thus creating a suitable climate for their growth.

Benefits

- Protection against UV rays, allowing sunlight filtration.
- Protection against frosts, increasing temperature up to 5°C.
- Protection against hail or heavy rain, allowing needed water filtration.
- Increase of crop precocity, achieving 10% higher crop outputs.
- Insect barrier, avoiding or reducing the use of pesticides and herbicides.

CHARACTERISTICS

- DNT agro crop cover 17 - 30 g/m².
- White or natural colour.
- Variable additivation up to 300 Kly depending on the crop or exposure area.
- Maximum roll width 240 cm.
- 150 Kly UV radiation standard resistance.
+ **WEED CONTROL FABRIC**

Weed control fabrics avoid sunlight filtration, therefore nullifying the chlorophyllic function of weed, hindering its growth at the same time that it helps transpiration of the fields and reduction of soil erosion.

**Benefits**

- Weed control in the crops.
- Prevents from using weed-killer chemical products.
- Lower landscape impact.
- Reduction of soil erosion.
- Reduction of evaporation.

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**CHARACTERISTICS**

- DNT agro weed control fabric 30 - 130 g/m²
- Maximum roll width 240 cm.
- Colours: brown, black and green.
- UV stabilisation.
+ SHADE FABRIC

Shade fabrics adjust the level of solar irradiation by controlling the quantity of sunlight received by plants. It is possible to make an impact in crops’ growth by using shade fabrics of different colours:

- **Red**: hinders ripening.
- **Blue**: fosters growth of certains crops.
- **Yellow**: fosters crops’ rejuvenation.

**Benefits**

- Regulation of **crop microclimatic conditions**.
- **Temperature reduction** for outside crops.
- **Prevention of plagues** such as thrips or whiteflies.
- **Protection** against heavy rain or hail.

**CHARACTERISTICS**

- **DNT agro shade fabric** max 150 g/m².
- Colours: red, blue and yellow.
- Maximum roll width 240 cm.
- UV stabilisation.

+ OTHERS

**DNT agro** can develop very specific products depending on crop location, soil conditions, typology or specific environmental characteristics.

- **BAGS FOR ROOT CONTROL**: These bags are adaptable for garden centres or seedbeds and they foster transplantations, hinder the loss of nutrients and accelerate crop growth.

- **CROP PROTECTION BAGS**: These bags repel insects, foster homogeneity in fruit sizes and increase crop output. They can be impregnated with insecticide in order to guarantee the success of the harvest.

- **REFLECTIVE SPUNBOND**: This product makes the radiation absorbed during the day to be transmitted to the crops at night.

- **POST-HARVEST SOLUTIONS**: Different uses related with the transport and preservation of the agricultural products, such as isothermal bags to cover pallets or protection cloth for refrigerator trucks.
quality policy

DNT Non Woven Fabrics works with very high standards of quality integrated in all management and production processes. All its human team is committed to continuous improvement so that all products offered fulfill clients' requirements.

Tensile tests and weight samplings are regularly carried out by the quality department in order to verify that products are always within the strict quality criteria which have been established.

DNT Non Woven Fabrics is certified with the International Standards on Quality Management ISO 9001 and ISO 14001.

Furthermore, it complies with the European Regulation 10/2011 on direct food contact and can certify that the material used for the manufacturing of its products is 100% polypropylene free of toxic or health-damaging additives and any substance harmful to the environment.

DNT Non Woven Fabrics is a member of EDANA, the European association of non woven manufacturers, what guarantees that the company respects the standardised protocols and methods required to manufacture non woven in the European market.

innovation R&D&i

In its bet for continuous improvement, DNT Non Woven Fabrics carries out significant efforts regarding technological innovation, thus applying the most efficient production and management methodologies in order to offer innovative solutions in its non wovens that perfectly fulfill the demands of its clients.

The human team of DNT Non Woven Fabrics, in close collaboration with the laboratories and innovation centres for technological innovation in the plastic industry, focus its efforts in the technical improvement of the products as well as in the development of new uses that may cover latent demands of the market.
sustainable development

The protection of the environment is for DNT Non Woven Fabrics a part of its business model. All products manufactured in its facilities are 100% recyclable and have been produced following coherent and eco-friendly processes and waste management.

All levels of the company continuously aim at optimising the use of resources, reducing waste in production and minimising the ecological impact of its activity. In this way, it is possible to reuse the material and reincorporate it into the value chain thanks to the reextrusion of wasted non woven; this process minimises waste generation, whose figures are below 1%.