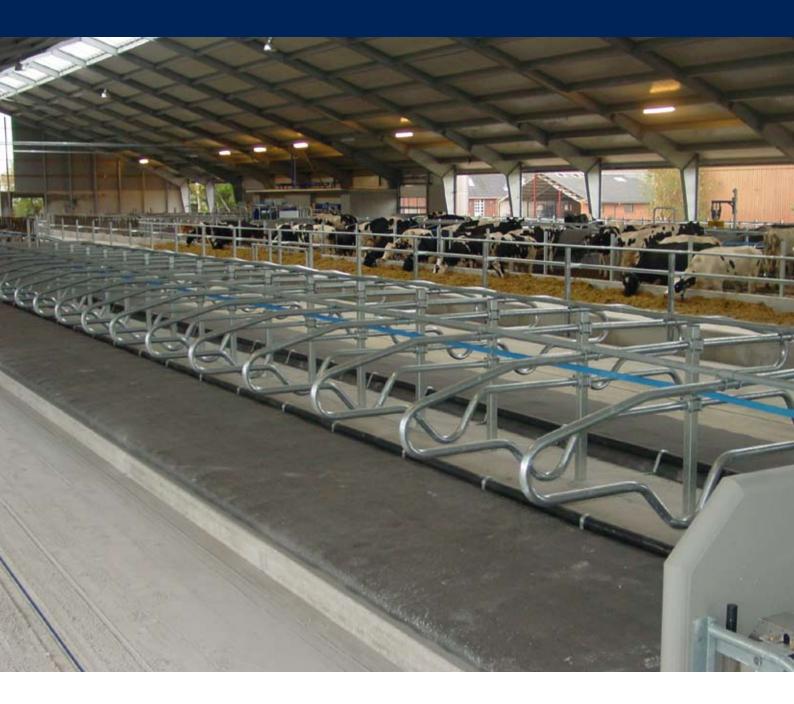
INDUSTRIAL FABRICSProduct outline TenCate Nicolon® cow mattress top layers

**TENCATE NICOION®



Protective Fabrics Outdoor Fabrics Aerospace Composites **Armour Composites**

Geosynthetics Industrial Fabrics Grass



TENCATE NICOLON® COW MATTRESS TOP LAYERS

TenCate Industrial Fabrics is a producer and supplier of technical textiles for building, agriculture, horticulture, water storage and dewatering projects. TenCate Nicolon® cow mattress top layers have been produced by TenCate since 1995. For today's professional dairy farmer cow house management includes application of the most economical working methods. Thanks to research of many years' standing TenCate has developed top layers, proven to be the best solution in the cow house for both cattle and farmer.

The strong characteristics of TenCate Nicolon® top layers are designed to improve comfort, animal well-being and hygiene. The basis of these wear resistant top layers is a strong polypropylene fabric. The material is immunized from fungus, bacteria and acids. The surface of the woven fabric prevents the cattle from slipping. Shopped litter and saw dust remain on the mattress without being blown away. At the same time the mattress prevents loss of hair at the heels and claws of the animals, because the top layer is not as stiff and harsh as rubber is. Moreover, the TenCate Nicolon® top layers are very easy to clean. And in summer the top layers are comfortable thanks to the air permeability of the woven construction.

A cow mattress is a two layers' system. At one side it has a top layer and at the other side a flexible bottom layer. TenCate has developed unique top layers, both for permeable and impermeable cow mattresses. Therefore TenCate Nicolon® is suitable for various types of mattresses. The bottom layer of a cow mattress can be composed of tubes filled with rubber grains, latex or plastic foam plates. The protection of this bottom layer is assured thanks to the either permeable or impermeable TenCate Nicolon® top layer.

TOP LAYERS PERMABLE TO LIQUIDS

TenCate Industrial Fabrics produces top layers permeable to liquids that can drain manure liquids, urine or cow's milk away from the animal. Through the fall of the concrete floor in the boxes the liquids flow into the grid floor, resulting in a perfectly dry box for the cow. After measuring round about the udders less bacteria were found in dry boxes and as a result there is considerably less chance of udders inflammation. The cell count of the milk too is demonstrably influenced in a positive way. And thanks to this special top layer the cattle is not sweating in summer.

When the mattress has a flexible bottom layer, it will remain flexible for many years. The cows have a good grip on the mat and therefore are not stressed when they want to lie down. Also the daily cleaning of the top layer passes very quickly when the box is dry. Moreover, the farmer can save on litter, since 600 grams only for each box will do to absorb the little moisture left. Every modern farmer will take advantage of this.

IMPERMEABLE TOP LAYERS

TenCate Industrial Fabrics has developed impermeable top layers for those mattress systems whereby manure liquids, urine or milk do not penetrate into the substructure. This TenCate Nicolon® coated top layer is produced from the same strong and flexible fabric construction. At the back it has a polypropylene coating of 2 kilograms per square meter in all. On the other hand the edges of the top layer are uncoated, allowing an easy wrapping round the concrete-base course during installation. The outcome is a flat top layer well joint to the substructure. The coated top layer has a length of 180 cm, corresponding exactly with the length of the cow mattress system. The TenCate Nicolon® coated top layer is the answer to the traditional rubber products, but with the advantages of a high flexibility, good grip, no loss of hair and durability. Thanks to the fabric construction the litter is not blown away from the

box in draughty conditions. The impermeable top layer can be combined with a substructure made of polylatex, EVA plates and rubber filled tubes.

The top layers can easily be kept clean.

The TenCate Nicolon® top layers have been tested as a cow mattress system at leading international institutes, like DLG Germany and have the "DLG- approved" rating. During monitoring the dairy cattle for six months, practical tests have proven that there are definitely less problems with claws, swollen heels and hygiene than with rubber cow mattresses, sand cushions or litter beds.

The laboratory tests at DLG Germany also have proven the strength and durability of the TenCate Nicolon® top layers.

INSTALLATION

For the installation of the cow mattress system with the TenCate Nicolon® top layers TenCate refers to the installers and suppliers of the products. Each supplier is a professional installer, often with many years of practical experience. They have furnished many hundreds of thousands resting areas with a TenCate Nicolon® top layer.

Each top layer is securely, safely and accurately fixed to the concrete-base course using strips and screws. The edges of



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the top layer are always flexible, assuring a good connection with the substructure. At the same time the mattress looks flat and tight. Your dealer is familiar with the directions for installation. TenCate Nicolon® top layers are also used to replace existing top layers. Depending on the comfort of the substructure this can be an economical solution.

RECYCLING

During production, in daily practice or after use of the TenCate Nicolon® top layers no hazardous materials are liberated that could effect man, beast and the environment. Polypropylene waste material is used in garbage incinerators as a power source during the incineration process, since it is made from mineral oil.

DEALER NETWORK

TenCate Industrial Fabrics suplies her TenCate Nicolon® top layers to an extensive and professional network of distributors all over Europe. From Ireland to Russia and from Sweden to Italy you will find references of TenCate Nicolon® top layers. Please visit our website **www.tencate.com**/industrialfabrics for further detailed information











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