

## MONDOTURF NSF SUPERCOURT XN



Latest generation artificial turf, manufactured with the TUFTING system. It has a gauge of 3/16" with 22 tufts/dm, resulting in 46.200 tufts/m<sup>2</sup>. The Supercourt XN available in different colors turf filament has a height of 10 mm and 10.000 dtex.

The Supercourt XN system combines two texturized monofilaments: STX with straight structure and central rib of 250 micron thickness and 6.000 dtex, and XNOVA in 4.000 dtex with parallelepiped structure and four asymmetrical ribs, acting as lateral support. XNOVA filaments have a thickness of 160 micron and 0,8mm width, an excellent balance between thickness and width of the fiber.

Both filaments are made from polyethylene (PE) with specific additives that are characterized by high resistance to UV rays, to heat, to cold temperatures and extreme climatic variations.

The Supercourt XN filaments are connected to the backing thanks to the TUFTING system. The backing is made with double layer of polipropilene with a weight of 215 g/m<sup>2</sup>. A peculiar characteristic of this support is the exceptional dimensional stability. After the process described above, approximately 600 g/m<sup>2</sup> of polyurethane are incorporated into the product via the finishing line. This operation fixes the filaments to the backing, obtaining a tear resistance of between 25-50 N. The total weight of the finished product is approximately 2.208 g/m<sup>2</sup> with a maximum roll width of 4 meters.

The lower layer is achieved during installation through a ballasting process made with rounded, washed and dried quartz sand granules. The sand has a 97% silicon content with a particle size between 0,2 - 0,6 mm, and is applied at a ratio of 10 kg/m<sup>2</sup>.

The MONDOTURF range of artificial grass systems has been developed to ensure excellent sporting and technical capabilities. The SUPERCOURT XN artificial turf carpet must be installed on a flat and if possible "rough" surface such as asphalt or unfinished cement. The following installation types must be avoided:

- Carpet on surface
- Carpet on NWF (non-woven fabric) substrates
- Carpet on hard, smooth surfaces such as marble, ceramics, highly compacted cements smoothed with a very fine trowel

Trimming by at least 3.0 cm is required along the entire perimeter. As far as possible, avoid long-term positioning of equipment or furnishings on the turf system that can prevent the natural movement of the carpet. The joints for the sheets involve the use of geotextile strips applied with two-component epoxy-polyurethane adhesives. The line marking for play is usually made with the same material.

The carpet of this system is laboratory certified in accordance with **GREENGUARD / GREENGUARD GOLD**.

The system of artificial grass surfaces is manufactured in accordance with the UNE EN ISO 9001 quality management systems in regards to the design, development, production, marketing, installation and maintenance of the artificial grass surface. It was developed according to the I+D+i management system in accordance with the UNE 166002 standard relating to the research, development and innovation of textile technologies for artificial grass surfaces and synthetic fibre materials. Furthermore, it is manufactured in accordance with the UNE EN ISO 14001 quality and environmental management systems regarding the design, development, production, marketing, installation and maintenance of the artificial grass surface.

Carpet composition		Carpet Properties	
Yarn type:	Monofibres STX Text. & XNOVA 4.000 Text	Yarn dtex (average):	10.000 dtex (± 10%)
Yarn Composition:	100% POLYETHYLENE	Yarn Thickness:	250 / 160 µm (± 10%)
Color:	Green, Blue, Red	Yarn Height:	10 mm (± 5%)
Backing type:	2 layers/ 215 g/m <sup>2</sup>	Stitches per linear dm:	22 tufts/dm
Backing Composition:	PP / PP	Stitches m <sup>2</sup> :	46.200 tufts/m <sup>2</sup> (± 10%)
Covering type:	Polyurethane (PU)	Number of filaments/m <sup>2</sup> :	554.400
Tufting Process:	Line Tufting	Water Permeability:	500 mm/h (solo pistas outdoor)
Gauge:	3/16"	Maximum roll size:	20,45 x 4 m

Carpet Weights		Recommended Infills	
Yarn Weight:	1.393 g/m <sup>2</sup> (± 10%)	Stabilizing Infill:	Quartz sand, rounded, washed and dried
Backing Weight:	215 g/m <sup>2</sup> (± 5%)	Article size (range):	0,2 - 0,6 mm
Coating weight:	600 g/m <sup>2</sup> (±10%)	Quantity:	10 kg/m <sup>2</sup>
Total weight:	2.208 g/m <sup>2</sup> (±10%)		