



# **TigerTurf™** Sports Range

An informed selection





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# THE ROOTS OF SYNTHETIC TURF

Terminology used within the synthetic turf market is often confusing and products can be difficult to differentiate.

In this document TigerTurf aims to break down the barriers by highlighting the key points to consider when selecting a synthetic turf surface – allowing you to feel safe in the knowledge that you can use this information to help select the most suitable surface for all your requirements.

## SYSTEMS

**There are four main types of synthetic turf systems on the market:**

**Fully synthetic:** An all-fibre construction with no added infill. Water is normally required when used for hockey.

**Sand filled:** A lighter weight surface filled with high levels of sand for stability and performance.

**Sand dressed:** A dense, heavy surface requiring some sand infill to support the fibres and add stability. It has more exposed fibre for a greener appearance.

**Third generation:** A system containing a rubber infill for extra performance. 3G surfaces utilise longer fibres to hold rubber as well as sand.

## TYPES OF YARN

**Traditionally there are two different types of yarn used in synthetic turf:**

**Polyethylene (PE):** Soft, durable and non-abrasive.

**Polypropylene (PP):** Firm, resilient and robust.

**The yarn manufacturing process enables different constructions of yarn to be extruded:**

**Monofilament:** Individually created filaments twisted or wrapped together. Monofilaments offer increased durability, resilience and ability to cope with high usage. The manufacturing process enables the yarn to be formed in different profiles and thicknesses.

**Fibrillated:** Manufactured as a tape that is perforated lengthways to create a strong lattice structure which splits down with use to produce a multi-fibre appearance.

**Texturized:** Straight monofilament yarn that has been heat-set to produce a tight, curly appearance which gives a non-directional surface.

**K-de-K:** Straight fibrillated yarns, which have been knitted and heat set giving a curled effect.

## INFILLS

**Infills are divided into two categories:**

**Stabilising infills:** Predominantly sand, at varying grades to weigh down the carpet and give structural integrity.

**Performance infills:** Usually rubber made from recycled sources, ground down into fine granules to prevent compaction, increase resilience and enhance playing characteristics.

## PILE CHARACTERISTICS

### Pile weight:

This refers to the quantity of yarn within a square metre of product, using the number of stitches and the gauge of manufacture. Historically, the pile weight of a product has dictated the quality and price, with the heavier products demanding a higher price in return for improved performance and durability.

### Pile height:

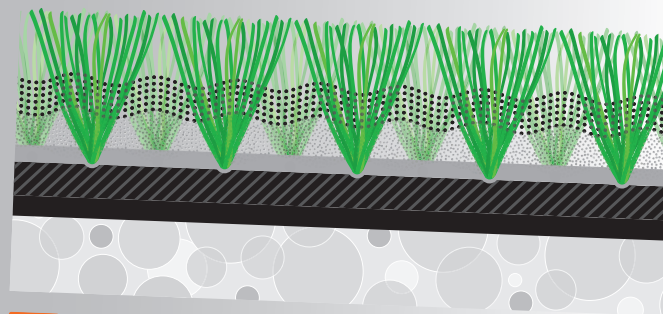
The height of the product gives an indication of its application and format:

**Football** products normally have a pile height of between 40-65mm, shock pads are used for football products with pile heights of 40-50mm to ensure player safety.

**Rugby** surfaces commonly have a pile height of between 60mm-65mm and are installed with a shock pad.

**Hockey and Tennis** surfaces tend to be between 10-20mm, offering different performance characteristics than the longer pile products. Generally shock pads are used in hockey but not with tennis.

## SYSTEM OVERVIEW



RUBBER INFILL



SAND INFILL



CARPET BACKING



SHOCK PAD



MACADAM LAYER (POROUS)



STONE/BASE CONSTRUCTION

## TESTING & ACCREDITATIONS

### Laboratory testing:

Different testing standards apply to each application.

**Football** surfaces can achieve three accreditation awards:

**FIFA 1 Star:** Designed for community use and has to pass a series of stringent tests focusing particularly on durability and longevity.

**FIFA 2 Star:** The highest professional standard, awarded to the best performing surfaces and stadia.

**GAA:** A global accreditation from the leading governing body in Gaelic Football.

**Rugby Union** surfaces have to adhere to IRB regulation 22 standards for full contact games and training activity. Testing includes the Head Impact Criteria (HIC), which has to achieve a certain height, ensuring player safety for full contact rugby in set pieces and open play.

**Rugby League** introduced performance standards in October 2011 with two levels, including stadium and community.

**Hockey** has one awarding body with accreditations split into two levels:

**FIH National:** The highest standard for surfaces with infill.

**FIH Global:** The highest standard for surfaces without infill.

**Tennis** testing relates to the ball bounce and speed of play, to meet the needs of the player or club:

ITF1: Slow

ITF2: Medium – Slow

ITF3: Medium

ITF4: Medium – Fast

ITF5: Fast

**Multi-Sport** products require a mixture of performance testing depending on the desired standard and relevant applications.

## GOOD GRASS GUIDE

In a market with so much choice, how do you know which products deliver? TigerTurf has produced this guide to help differentiate the best from the rest.



TEXTURIZED



MONOFILAMENT



FIBRILLATED

### Polyethylene (PE) vs. Polypropylene (PP)

Polyethylene yarns were introduced in the mid 90's as a viable replacement for traditional polypropylene fibre types. Polyethylene has a different polymer structure and as such has a softer, smoother texture, which creates a less abrasive product. Another distinct advantage of polyethylene is that it has a waxy, almost damp feel which is skin friendly. Polypropylene on the other hand can be very firm and resilient offering a more robust surface.

### Monofilament vs. Fibrillated

Fibrillated fibres are manufactured using established technology and have to be artificially worn to create the correct aesthetics necessary for a synthetic turf surface. However, the lattice structure does encapsulate the infill, which significantly reduces the amount of infill movement and migration. The drawback of this encapsulation is that the infill tends to compact, requiring additional maintenance. Monofilaments are more durable than fibrillated fibres and due to the manufacturing process they can be extruded in various shapes and thicknesses. Additionally, fibrillated surfaces also have a tendency to flatten more easily. Monofilaments therefore give greater performance and increased durability, as the fibres are worn on the tip rather than the side.

### Texturized vs. Straight

Yarn structure plays an important role in the performance characteristics of a product. Texturized yarn is used in hockey and tennis products because it produces a non-directional surface that is ideal for precise and non-deviating ball roll and bounce. Straight fibres are used primarily in football and rugby applications and tend to be longer and softer than the texturized fibres. Straight fibres replicate the natural grass on which the sports are usually played. This provides resistance to the ball during play, which is one of the main criteria for football surfaces.

### Profiled vs. Flat Monofilament

In recent years there has been a tendency towards more profiled or shaped monofilament yarns. These yarns have a spine or thicker centre to give 'vertical memory,' encouraging the yarn to return to its original state after ball or player impact. The flat or smooth monofilaments require additional maintenance to encourage the yarn to return to its original position.

# PRODUCT RANGE

Our Select product range incorporates the industry's latest developments. Utilising quality engineered yarns; these products offer opportunities to improve player performance all year round. We believe our Select range offers the customer best value. Research has shown that cheaper, poorer quality surfaces need to be lifted and replaced more regularly than well designed, high quality engineered products. TigerTurf surfaces always aim to give greater value for money and greater return on investment.

TigerTurf's product portfolio also includes the Essentials range; these products all undergo the same rigorous quality standards processes as the Select range to consistently offer quality products across the sports range. These products are created using established technology and have set industry standards for high performing tried and tested methods of manufacture. The Essentials range offers you competitively priced turf surfaces specifically designed for a range of sports at different competing levels.

Our entire range is created and designed in house by the industry leading TigerTurf Research and Development team.

## YARN SELECTION

The yarn selection process is vital to ensuring products do not prematurely wear, break down or underperform. TigerTurf's R&D department conduct stringent testing on all yarns to guarantee optimum durability and performance for all sport applications.

### Pre worn fibres



- Perfect condition
- High performance

### Post worn fibres



- Poor condition
- Reduced performance

Yarn testing takes place to ensure only the best yarns are utilised for TigerTurf surfaces.

## DUAL LOCKING SYSTEMS

TigerTurf's Dual Locking System binds the filament on either side of the backing material for maximum tuft retention. There are three major components that make the system work:

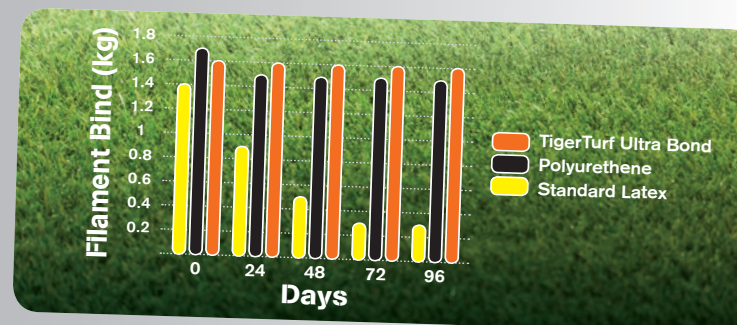
### 1. Pro-Tech Xtra

Advances in fabric production have meant that the Pro-Tech fabric used previously in TigerTurf products can now be incorporated into the primary backing cloth, thus simplifying the process and creating one stronger backing product – 'Pro-Tech Xtra.' Pro-Tech Xtra has also been upgraded from non-woven Polypropylene to non-woven Polyester with Nylon (PA). This improves strength, dimensional and thermal stability, resulting in less post expansion and contraction and better Ultra-Bond absorption.

### 2. Ultra-Bond

Ultra-Bond wet compound is applied to the backing, using an advanced formula of polymers and is applied to the backing. This compound is not only unique in the way that it interacts with the Pro-Tech Xtra fabric, it is also less water soluble than other systems, outperforming other compounds in the market.

Combining Pro-Tech Xtra and Ultra-Bond ensures tuft retention over time, also known as tuft lock. This means that the fibres wear in a natural pattern rather than being pulled from the base.



TigerTurf's Ultra-Bond out performs both polyurethane and standard latex over time.

### 3. RAM application

The RAM application method opens the individual fibres of each tuft to push the Ultra-Bond deep into the root of the tuft for maximum hold. This binds the individual filaments rather than just the outer tuft, again reducing fibre loss and extending the life and playability of the product.



# ADDITIONAL SYSTEM COMPONENTS

TigerTurf is committed to developing systems that offer the best performance and value across all sports. In order to deliver products that continually meet the standards set by sports governing bodies, TigerTurf has teamed up with the leading suppliers within the industry.

## SHOCK PADS

Advanced shock pads and quality in-fills play a significant role in ensuring maximum safety, playability and longevity for artificial turf systems.

### A.P.E Shock Pads



A.P.E shock pads are preformed channelled tiles constructed out of thermally bonded recycled material available in a number of thicknesses for various applications. As well as a proven playing performance, this type of pad has the favourable feature of being able to be re-used for a second, and sometimes a third time. This can result in significant saving when replacement of the surface is due.

The advantages are:

- Consistent thickness resulting in even bounce.
- Can be installed over a dynamic base.
- Manufactured in controlled conditions resulting in a pad that has great strength.
- Can be installed in variable weather conditions without affecting the pad's overall integrity.

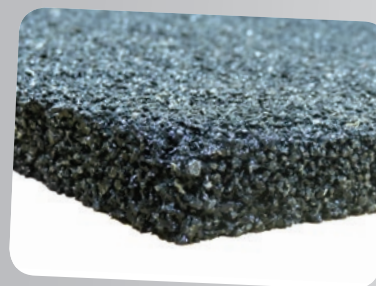
### In-situ Rubber Shock Pad

This shock pad is produced by contractors on site with specialist mixing and laying equipment. It is laid over a porous macadam (asphalt) sub base with tolerances ideally of nothing greater than 6mm over a 3m straight edge (10mm over 3m for football and rugby).

The quantity of rubber and binder will depend upon the sports application and the dimensions of the facility. The size of rubber granule used will also depend upon the sports application and the depth of the shock pad. Our contracting partners control the quality of installation on site and check that the correct ingredients are used in the mix.

This method for laying shock pads is tried and tested, and is used by most sports surfacing contractors. The pad chemically binds to the macadam whilst also maintaining porosity.

### E-layers



E-layers are recycled rubber granules, usually in a particle range size of 2-6mm or 2- 4mm, which are bound together using PU. They are paved on-site by specialty contractors directly onto a dynamic, porous stone base. The E-layer reduces the risk of impact injury when falling on the surface and the range of thicknesses are typically between 20mm and 35mm.

The E-layer is important to maximise the performance and longevity of an artificial grass surface, it acts to slow down the infill compaction and provides the shock absorption which increases performance levels and reduces injuries associated with hard ground. As E-layers are directly paved on-site, there are no seams to consider which are typical of other resilient underlayments, this ensures consistent performance characteristics. One of its benefits is that it can be paved in as a secondary levelling layer on top of the dynamic base. The E-layer is a popular shock pad option that can be tailored to meet various sports turf system specifications.

# INFILLS

## GREENSAND

Becoming a greener company is one of TigerTurf's main objectives.

**A sustainable resource** - made from 100% recycled waste container glass.

**Environmentally friendly** - diverts unwanted re-melt glass from landfill.

**Easier to maintain** - sub-angular particle shape is less susceptible to compaction than rounded natural sands.

**Saves money** - 10% less volume required (a considerable saving on large projects).

**Fully approved** - tested to the highest industry and governing body standards.

**Innovative and safe** - patented technology produces a 100% sharp free product.

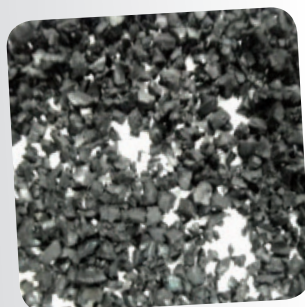
Available in grades 22/72 (0.2-0.7mm) & 16/30 (0.5-1.0mm).



## RUBBER INFILL

The recycled rubber infill that we recommend has been chosen because it is highly efficient and environmentally friendly.

- Ball rebound is the same as on natural turf; outstanding ball behaviour all year round at low maintenance costs.
- Players do not get turf burns if they make sliding tackles.
- Recycled rubber granulate is free from contaminants.
- No infill material has been tested by more independent researchers.
- There is no risk of soil and water contamination from an artificial turf pitch.
- The end products are uniform and clean and therefore very well suited for high quality sports.
- Guaranteed properties of the infill are measured according to well-known standards like EN, DIN and ASTM and are permanently monitored in the production process.
- Superior characteristics such as elasticity, weather resistance and extremely good aging properties which are present in tyres are maintained in the infill.
- No health or environmental risk is connected with the use of rubber granulate infill from scrap tyres.



## TAPE AND ADHESIVE

Manufactured in the UK, Envirostik are undisputedly the experts in the field of innovative, trusted products formulated to last a lifetime. Recent developments in test requirements for sports pitches, particularly International Rugby Board (IRB) and FIFA tests, have added demands to adhesive technology and led to the development of the next generation of seaming tapes and adhesives.



### TigerTurf: Adhesive

- Formulated for high bond strength whilst remaining easy to use.
- Bonding all carpets and tapes.
- For use on sport surfaces.
- Versatile over 5°C - 30°C.
- Packaging: 5kg, 10kg and 12kg.

### TigerTurf: Seaming Tape

- Geotextile tape for joining carpet seams.
- For medium to long height tufted pile.
- Roll sizes: 300mm x 300m, 400mm x 300m and 500mm x 300m.

All product details listed in this publication were accurate at time of print. Due to the nature of the industry, occasionally TigerTurf may be forced to alter product specification or range in order to meet production or market requirements.



Hamilton Academical Football Club Stadium: Total Turf 60 XQ

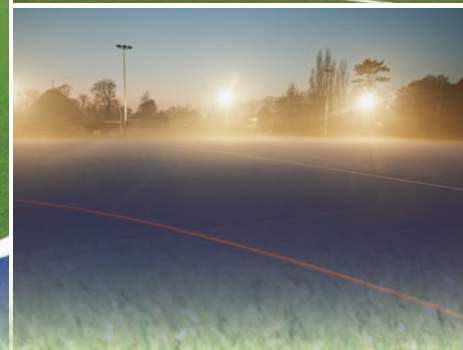


# TigerTurf™ Football

| Product            | Range      | Description                                                                                                                                                                                                                                                                                                   | Application        | Pile Height (mm) | Pile Weight (g/m²) | Testing                                      | Guarantee Period (playing hrs) |
|--------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|--------------------|----------------------------------------------|--------------------------------|
| Atomic Pro 50      | Essentials | The Atomic Pro range is made with extra wear resistant yarns, providing the ultimate combination of advanced performance and durability. It is diamond shaped, ribbed surface shape makes for the most advanced, ultra-durable grass fibre with resilience, increased comfort and safety as prime attributes. | Football           | 50               | 1373               | N/A                                          | 20,000                         |
| Atomic Pro 60      | Essentials |                                                                                                                                                                                                                                                                                                               | Football           | 60               | 1373               | FIFA 1*, EN                                  | 20,000                         |
| Football 50 XO Pro | Essentials | The XP Pro range is created with a fibrillated yarn that allows the blades to split after use, creating a dense, multi-fibre appearance. Ideal for heavily used small sized football areas.                                                                                                                   | Football           | 50               | 1249               | N/A                                          | 20,000                         |
| Football 60 XP Pro | Essentials |                                                                                                                                                                                                                                                                                                               | Football           | 60               | 968                | BS EN 15330 - 1:2007 (Football), FIFA 1*, EN | 30,000                         |
| Soccer Real 50 XQ  | Select     | These are premier football products to suit the needs of professionals and the community. They are innovative 3G surfaces consisting of two unique profiled fibres.                                                                                                                                           | Football           | 50               | 1182               | FIFA 1*, FIFA 2*                             | 20,000                         |
| Soccer Real 60 XQ  | Select     |                                                                                                                                                                                                                                                                                                               | Football           | 60               | 1360               | FIFA 1*, FIFA 2*                             | 20,000                         |
| Total Turf 40 XQ   | Select     | Third generation, polyethylene surface consisting of two unique profiled monofilament fibres. Ridge & Crescent yarn technology that offers unrivalled pile recovery. Designed to meet the needs of professionals and the community.                                                                           | Football<br>Hockey | 40               | 1030               | FIFA 1*, FIFA 2*, FIH National               | 20,000                         |
| Total Turf 60 XQ   | Select     |                                                                                                                                                                                                                                                                                                               | Football<br>Rugby  | 60               | 1353               | IRB reg 22, FIFA 1*, FIFA 2*, RFL (Stadia)   | 20,000                         |



Exeter University: WETT Pro



# TigerTurf™ Hockey

| Product          | Range      | Description                                                                                                                                                                                                                                                        | Application                           | Pile Height (mm) | Pile Weight (g/m²) | Testing                                                         | Guarantee Period (playing hrs) |
|------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------|--------------------|-----------------------------------------------------------------|--------------------------------|
| Total Turf 40 XO | Essentials | Third generation, polyethylene surface consisting of two unique profiled monofilament fibres. Ridge & Crescent yarn technology that offers unrivalled pile recovery. Designed to meet the needs of professionals and the community.                                | Football Hockey                       | 40               | 1030               | FIFA 1*, FIFA 2*, FIH National                                  | 20,000                         |
| Evo Pro          | Select     | Evo Pro is a sand dressed, dense, texturized, polyethylene monofilament product with narrow blades. It is the sand dressed version of WETT Pro that can be used for a variety of Multi-Sport applications.                                                         | Hockey Tennis Football Netball Futsal | 18               | 1545               | FIH National, EN, ITF 5 (Fast), Netball, DIN 18035-7, DIN 51960 | 30,000                         |
| WETT Pro         | Select     | WETT Pro (Water Efficient TigerTurf) is a state of the art, water based Hockey product that offers unparalleled performance and durability. It has been designed to meet the highest level of performance standards, with reduced water application and no infill. | Hockey                                | 13               | 1715               | FIH Global, EN                                                  | 30,000                         |



Uckfield Community College: Total Turf 60 XQ



## TigerTurf™ Multi-Sport

| Product          | Range             | Description                                                                                                                                                                                                                                                                      | Application                                       | Pile Height (mm) | Pile Weight (g/m <sup>2</sup> ) | Testing                                                         | Guarantee Period (playing hrs) |
|------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------|---------------------------------|-----------------------------------------------------------------|--------------------------------|
| MultiSport 20    | <b>Essentials</b> | MultiSport 20 is the perfect cross play surface. Players of all ages and abilities will see the benefits of this surface no matter what their sporting background. The hard wearing yarns that make this product allow the surface's high performance to be sustained over time. | Multi-Sport                                       | 20               | 772                             | N/A                                                             | 12,500                         |
| Evo Pro          | <b>Select</b>     | Evo Pro is a sand dressed, dense, texturized, polyethylene monofilament product with narrow blades. It is the sand dressed version of WETT Pro that can be used for a variety of Multi-Sport applications.                                                                       | Hockey<br>Tennis<br>Football<br>Netball<br>Futsal | 18               | 1545                            | FIH National, EN, ITF 5 (Fast), Netball, DIN 18035-7, DIN 51960 | 30,000                         |
| LIFE             | <b>Select</b>     | LIFE is a colourful, creative and cheerful surface that brings play areas to life. It is a safer, more attractive and child friendly alternative to traditional playground surfaces.                                                                                             | Multi-Sport<br>Playgrounds                        | 24               | 1038                            | HIC 1.2                                                         | 12,500                         |
| Total Turf 40 XQ | <b>Select</b>     | Third generation, polyethylene surfaces consisting of two unique profiled monofilament fibres. Ridge & Crescent yarn technology that offers unrivalled pile recovery. Designed to meet the needs of professionals and the community.                                             | Football<br>Hockey                                | 40               | 1030                            | FIFA 1*, FIFA 2*, FIH National                                  | 20,000                         |
| Total Turf 60 XQ | <b>Select</b>     |                                                                                                                                                                                                                                                                                  | Football<br>Rugby                                 | 60               | 1353                            | IRB, FIFA 1*, FIFA 2*, RFL (Stadia)                             | 20,000                         |



WRU Training Headquarters, Vale Resort Complex

**TigerTurf™ Rugby & Golf** 

| Product          | Range      | Description                                                                                                                                                                                                                              | Application           | Pile Height (mm) | Pile Weight (g/m²) | Testing                                    | Guarantee Period (playing hrs) |
|------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|--------------------|--------------------------------------------|--------------------------------|
| Total Turf 60 XQ | Select     | Third generation, polyethylene surfaces consisting of two unique profiled monofilament fibres. Ridge & Crescent yarn technology that offers unrivalled pile recovery. Designed to meet the needs of the professionals and the community. | Rugby Football        | 60               | 1353               | IRB reg 22, FIFA 1*, FIFA 2*, RFL (Stadia) | 20,000                         |
| Total Turf 65 XQ | Select     |                                                                                                                                                                                                                                          | Rugby Football        | 65               | 1633               | IRB reg 22, FIFA 1*, FIFA 2*, GAA          | 20,000                         |
| Golf 13          | Essentials | Golf 13 is a state of the art product that offers unparalleled performance and durability, with an extremely durable texturized, polyethylene, monofilament yarn.                                                                        | Putting Green Tee Box | 13               | 1175               | EN                                         | 17,500                         |
| Golf 18          | Essentials | Golf 18 is a sand dressed version of Golf 13; which is a state of the art product offering unparalleled performance and durability.                                                                                                      | Fringe Fairway        | 18               | 1545               | EN, DIN 18035-7, DIN 51960                 | 17,500                         |



Wickford Lawn Tennis Club: Advantage Pro



# TigerTurf™ Tennis & Padel

| Product        | Range      | Description                                                                                                                                                                                                                                               | Application                                       | Pile Height (mm) | Pile Weight (g/m²) | Testing                                                         | Guarantee Period (playing hrs) |
|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------|--------------------|-----------------------------------------------------------------|--------------------------------|
| Tennis Ace     | Essentials | Tennis Ace is a medium pile, hard wearing product designed for players of all ages and abilities. The yarns specifically chosen for Tennis Ace allow the surface's high performance to be sustained over time.                                            | Tennis                                            | 20               | 772                | ITF 4 Medium-Fast                                               | 12,500                         |
| Advantage Pro  | Select     | A soft, dense, texturized, polyethylene monofilament surface with narrow blades and sand infilling. Ideal for tennis clubs, the soft cushioning under foot means it's suitable for mixed ages and abilities.                                              | Tennis                                            | 13               | 1175               | ITF 4 Medium- Fast, EN                                          | 22,500                         |
| Clay Court Pro | Select     | Clay Court Pro is an advanced Tennis surface specifically designed to replicate a clay court in both appearance and playing characteristics.                                                                                                              | Tennis                                            | 11               | 874                | ITF 2 Medium-Slow                                               | 12,500                         |
| Evo Pro        | Select     | Evo Pro is a sand dressed, dense, texturized, polyethylene monofilament product with narrow blades. It is the same dressed version of WETT Pro that can be used for a variety of Multi-Sport applications.                                                | Hockey<br>Tennis<br>Football<br>Netball<br>Futsal | 18               | 1545               | FIH National, EN, ITF 5 (Fast), Netball, DIN 18035-7, DIN 51960 | 30,000                         |
| Padel Court 11 | Select     | Padel Court 11 is a medium pile, polypropylene, fibrillated fibre surface, part filled with sand to improve player performance and ball bounce. This specially designed product is the perfect surface for all levels of play, whether indoor or outdoor. | Padel                                             | 11               | 874                | N/A                                                             | 12,500                         |
| Padel 13       | Select     | Padel 13 is a polypropylene, fibrillated fibre product that provides true ball bounce and more comfortable conditions for players as a result of being part filled with sand.                                                                             | Padel                                             | 13               | 707                | N/A                                                             | 12,500                         |



**TenCate Grass** develops and manufactures synthetic turf fibres and components, and designs systems for sports, recreation and landscape applications. Together with partners in the industry TenCate Grass aims to pursue a system approach. This gives users confidence in playing characteristics and durability. TenCate Grass is technology-driven and occupies a leading market position worldwide.

**TenCate, materials that make a difference**



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