

Indoor games are fun for the players and public. Playing indoors, however increases the requirements with respect to dust, odour and fire protection. Terra XPS® has been developed to meet these demands (*). It can be applied for field sports like Soccer, American Football, Rugby etc.

Terra XPS® is a guarantee for:

- Good playing performance
- Excellent durability
- Protection of health and safety of the human being and environment

Fire protection:

Indoor a fire is spreading much faster and the smoke production is higher. Smoke and heat can not leave the facility. Most people can not find an exit or are seriously injured by the toxic fumes.

The standard Terra XPS® grades is already offering a high fire protection. **Terra XPS® Indoor** is offering an extreme high fire protection and has a low smoke production (**). **Terra XPS® Indoor** is meeting the critical radiant flux requirements for floor covering systems. The flame retardant used to increase the fire protection of **Terra XPS® Indoor** is cooling the fire by evaporation of water molecules. A very human friendly way to suppress a fire. Using **Terra XPS® Indoor** will help you to safe on your insurance.



No dust/No Odour

Terra XPS® contains very low initial dust levels and hardly any odour. Terra XPS® has the best test score on the ISA procedure on abrasion indicating that dust formation during the life time of an artificial indoor field due to wear of Terra XPS® is very low.

The comfort level for dust is <math><250\text{mg}/\text{m}^3</math>. Above this level players are complaining about dust particles in the nose and a dry throat. The maximal acceptable dust level (MAC- level) is <math><1000\text{ mg}/\text{m}^3</math>. The Terra XPS® dust levels are well below these thresholds under normal indoor conditions.

Information is available to prove that Terra XPS® does not contain ingredients, which may cause a tread to the health of humans. Playing on an indoor artificial turf field with Terra XPS® infill will be fun for the player and the public.

(*) It is recommended to keep the humidity in the indoor facility on 70% for optimal playing performance.

(**) In order to assess the fire protection of an artificial turf system the complete system has to be tested according to the standards.

Property	Terra XPS®	Terra XPS® Indoor
Flame safety	Medium	High
Critical Heat Flux	Medium	High
Smoke development	Medium	Low
Dust	Below irritation level	Below irritation level
Odour	Hardly noticeable	Hardly noticeable
Light absorption (heating up)	Low	Low
Fire protection	Class T3 (NEN 1775: 1997) EuroClass Efl (EN13501-1)	EN ISO 9239-1: 2002 Class T1 (NEN 1775: 1997) EuroClass Cfl (EN13501-1)

(EN ISO9239-1: 2002 is a test method similar to the ASTM E 648-84/90).

Terra Sports Technology BV (TST)

TST is a company specialising in research & development and marketing & sales of elastomeric synthetic materials that find their application in sports floorings and artificial turf systems. In its R&D centre, Terra Sports Technology has high-tech sports testing facilities like the Artificial Athlete and equipment for the Lisport test, the ball bounce test, rotational friction tests, etc. With this equipment TST is able to develop and evaluate its own materials and support customers in fine tuning their artificial turf systems with Terra XPS[®].

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DSM Sarlink

DSM Sarlink produces thermoplastic elastomers at production locations in the USA and Belgium. It has sales offices in North America, Europe, Singapore and Japan. Sarlink[®] TPEs are applied in the automotive industry, construction, consumer articles, the food industry and sport. DSM Sarlink is part of DSM, a globally operating company in life-science products, performance materials and industrial chemicals. DSM has annual sales of € 8 billion and 23,000 employees at more than 200 locations worldwide.

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