

# Smart technologies shaping the future of tennis

Tennis is a sport that requires speed, agility, strength, and strategy. From stadium infrastructure and playing surfaces to athlete equipment and apparel, Dow technologies play a key role in creating innovative products that enhance the game.



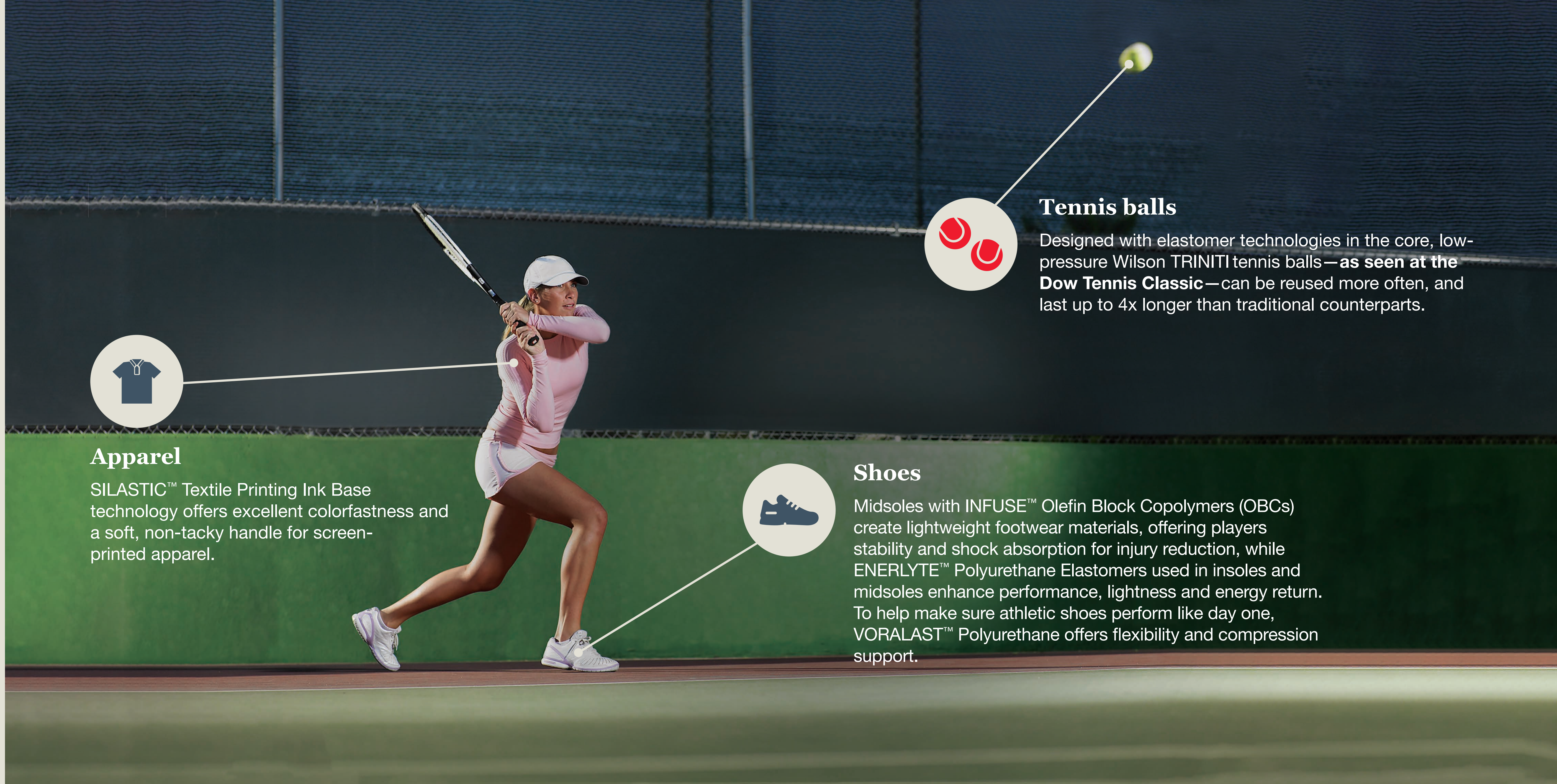
## The sport of tennis



As of 2018, youth tennis participation reached 4.64 million players, with 2.83 million playing 10 or more times a year<sup>1</sup>.

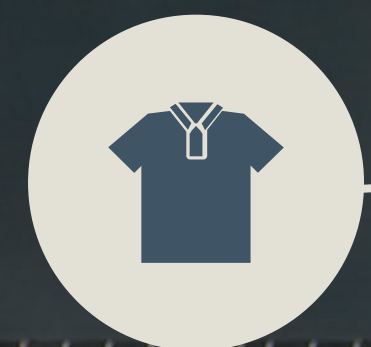


The overall number of new and returning tennis players increased by 10% in 2018, bringing the estimated total to 4.58 million<sup>2</sup>.



### Tennis balls

Designed with elastomer technologies in the core, low-pressure Wilson TRINITY tennis balls—as seen at the Dow Tennis Classic—can be reused more often, and last up to 4x longer than traditional counterparts.



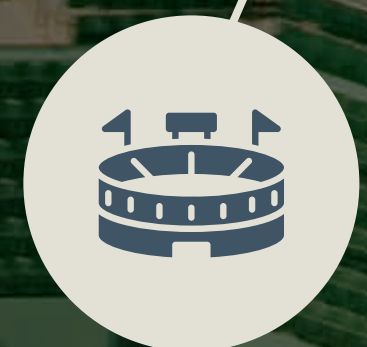
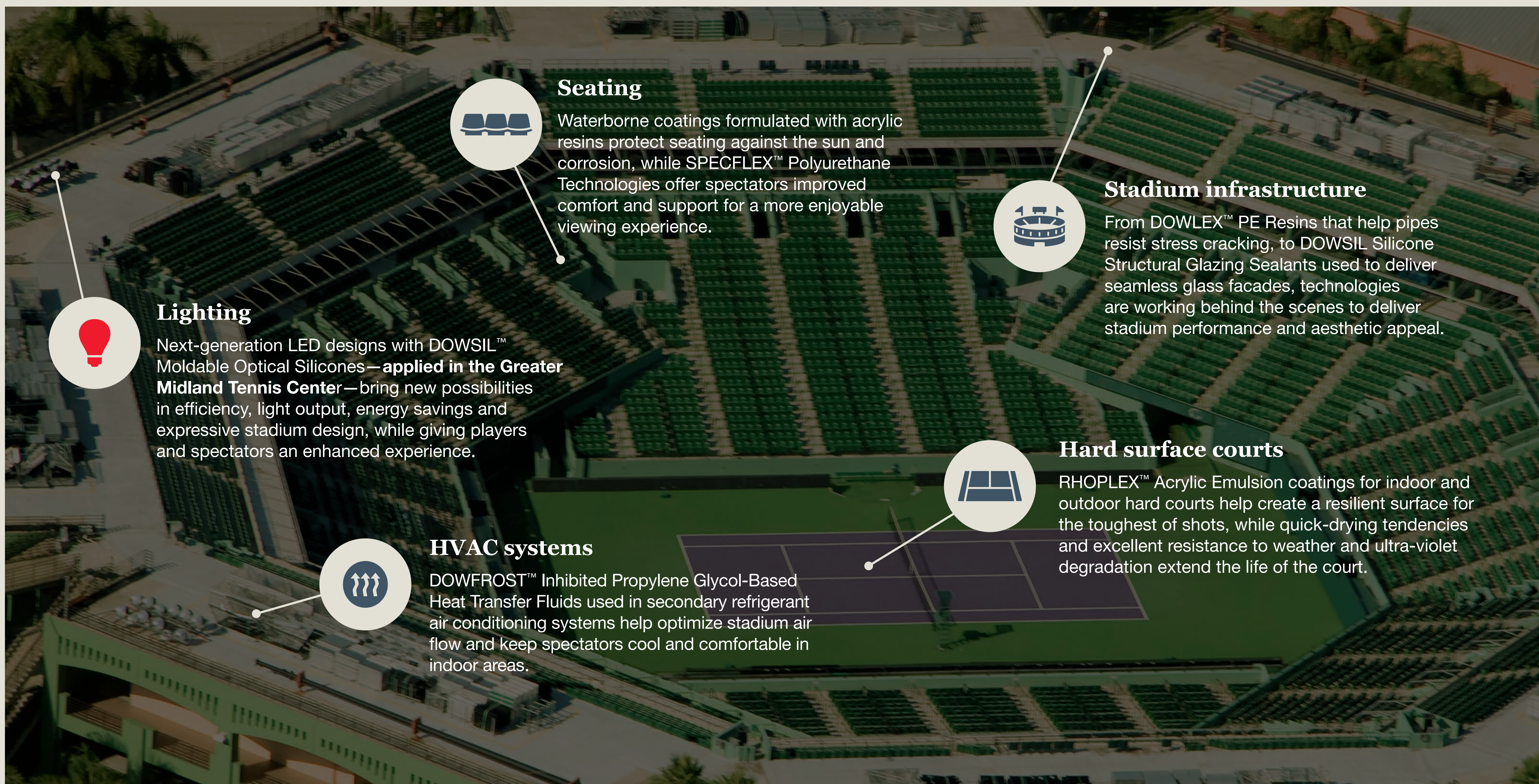
### Apparel

SILASTIC™ Textile Printing Ink Base technology offers excellent colorfastness and a soft, non-tacky handle for screen-printed apparel.



### Shoes

Midsoles with INFUSE™ Olefin Block Copolymers (OBCs) create lightweight footwear materials, offering players stability and shock absorption for injury reduction, while ENERLYTE™ Polyurethane Elastomers used in insoles and midsoles enhance performance, lightness and energy return. To help make sure athletic shoes perform like day one, VORALAST™ Polyurethane offers flexibility and compression support.



### Stadium infrastructure

From DOWLEX™ PE Resins that help pipes resist stress cracking, to DOWSIL Silicone Structural Glazing Sealants used to deliver seamless glass facades, technologies are working behind the scenes to deliver stadium performance and aesthetic appeal.



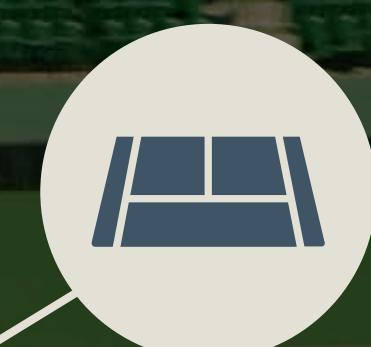
### Seating

Waterborne coatings formulated with acrylic resins protect seating against the sun and corrosion, while SPECFLEX™ Polyurethane Technologies offer spectators improved comfort and support for a more enjoyable viewing experience.



### Lighting

Next-generation LED designs with DOWSIL™ Moldable Optical Silicones—applied in the Greater Midland Tennis Center—bring new possibilities in efficiency, light output, energy savings and expressive stadium design, while giving players and spectators an enhanced experience.



### Hard surface courts

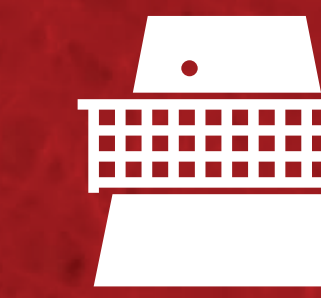
RHOPLEX™ Acrylic Emulsion coatings for indoor and outdoor hard courts help create a resilient surface for the toughest of shots, while quick-drying tendencies and excellent resistance to weather and ultra-violet degradation extend the life of the court.



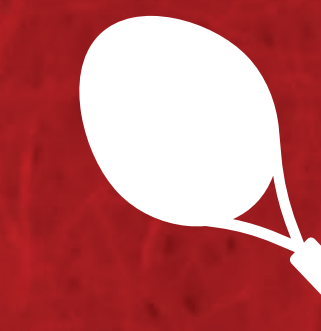
### HVAC systems

DOWFROST™ Inhibited Propylene Glycol-Based Heat Transfer Fluids used in secondary refrigerant air conditioning systems help optimize stadium air flow and keep spectators cool and comfortable in indoor areas.

## Did you know?



The word “tennis” comes from the French word, “tenez,” which directly translates to “here it comes!”<sup>3</sup>



A modern tennis racket is typically 25-40% lighter with a noticeably larger head size than rackets 30 years ago<sup>4</sup>.



Tennis balls were historically either black or white, depending on the background color of the court where the match was being played. It wasn't until 1972 that yellow tennis balls were introduced by the International Tennis Federation in an effort to be more visible by television viewers<sup>5</sup>.



When women first began playing tennis competitively at Wimbledon in 1884, their typical uniform included long-sleeved dresses with corsets and hats<sup>6</sup>.



The longest recorded tennis match of all time took place at the 2010 Wimbledon Championships between John Isner and Nicolas Pietrangeli, lasting 11 hours and 5 minutes<sup>7</sup>.



Icons denoted in red signify application in the Greater Midland Tennis Center for the Dow Tennis Classic

<sup>1</sup><https://www.usatf.com/latest-tennis-stats-show-youth-up-core-adults-down-in-industry-study/>

<sup>2</sup><https://www.itftennis.com/technical/rackets-and-strings/overview.aspx>

<sup>3</sup><https://www.olympic.org/news/a-brief-history-of-tennis>

<sup>4</sup><https://www.itftennis.com/en/rackets-and-strings>

<sup>5</sup><https://www.itftennis.com/technical/balls/other/history.aspx>

<sup>6</sup><https://www.olympic.org/news/a-brief-history-of-tennis>

<sup>7</sup><https://thefactfile.org/tennis-facts/>

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