Heat transfer fluids from Dow are being used to help enable precision control of temperatures to create ice surfaces tailored to the specific needs of different sports on ice in the Olympic Winter Games PyeongChang 2018.

Dow heat transfer fluids made their Olympic debut at the Olympic Winter Games Sochi 2014 in one of Sochi’s most iconic venues – the Bolshoy Ice Dome.¹

DOWTHERM™ SR-1 Heat Transfer Fluid is used in hockey and speed skating surfaces at Olympic Winter Games ice venues including:

- The Gangneung Hockey Centre
- The Kwandong Hockey Centre
- The Gangneung Oval
- Sub-Track for Short Track

All ice is not created equal. For each sport, the ice hardness requirement varies depending on the amount of surface resistance skaters require. Hockey athletes at the Gangneung and Kwandong Hockey Centres require ice that is harder and more compressed than the typical skating rink so that it can withstand the constant back-and-forth from the players and referees. Long-distance speed skaters competing at the Gangneung Oval also require hard ice to facilitate easier gliding with less resistance. On the other hand at the practice arena, speed skaters on short tracks need softer ice to help ensure a proper grip.

Olympic Games ice rinks in PyeongChang must be able to withstand multiple competitions per day at various temperatures. With the anticipated low temperatures of the Korean winter, freeze and pipe burst protection are essential to Olympic Games venue managers. Dow solutions applied to the water provide freeze protection below -50°C (-60°F) and burst protection below -73°C (-100°F).

DOWTHERM™ SR-1 Inhibited Ethylene Glycol-based Fluid has the highest industry purity and advanced formulation technology, making it the ideal solution for supplying superior ice temperatures in hockey and speed skating.

The same solutions used in PyeongChang are also used globally across different applications, including:

- Food industry for refrigeration and chilling of dairy products
- Building and construction industry for HVAC systems (heat ventilation and air conditioning)
- Chill water loops and thermal energy storage
- Hydronic heating and snow melt systems
- Geothermal (ground source heat pumps) and solar hot water heating

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer’s use and for ensuring that Customer’s workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to “Dow” or the “Company” mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

For more information www.dow.com/en-us/about-dow/dow-sports/

Media Contact: LINDA LIM | Dow Olympic & Sports Solutions
llim2@dow.com | +65.9626.7662

*High-resolution photography available upon request
**Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow