

Supplementary Information for “Ice Hardness and Skate-to-Ice Friction in Ice Rinks across Varying Water Quality” in Sports Engineering

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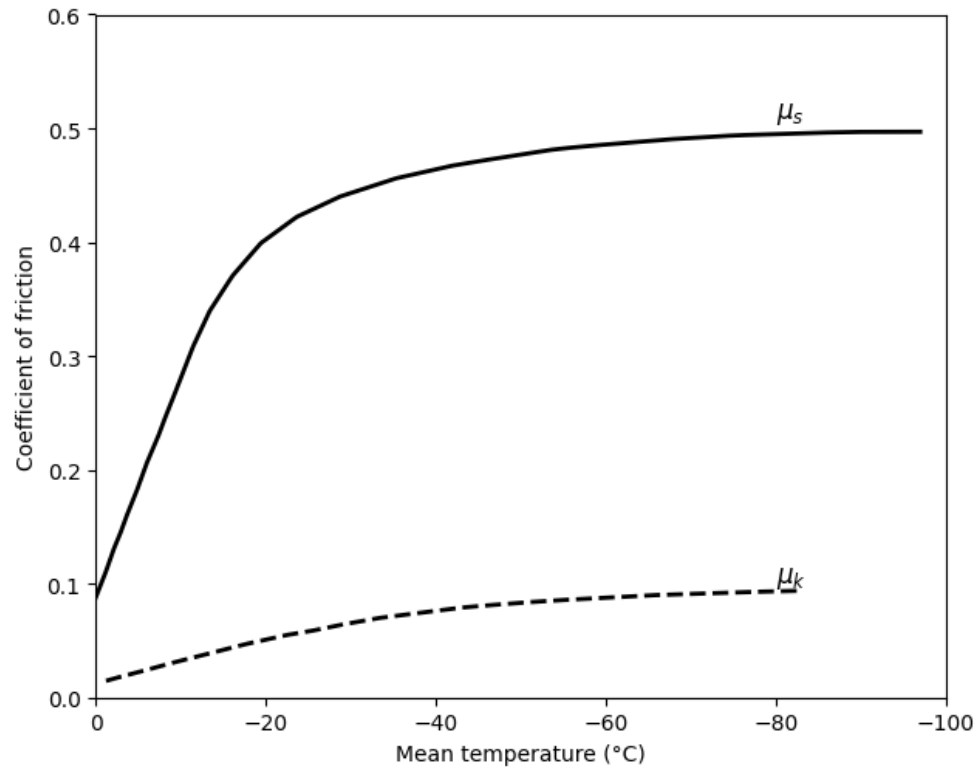


Figure S1. Static (μ_s) and kinetic (μ_k) friction coefficients versus mean ice temperature, replotted by the authors from digitized values corresponding to Fig. 27 in Bowden and Tabor¹.

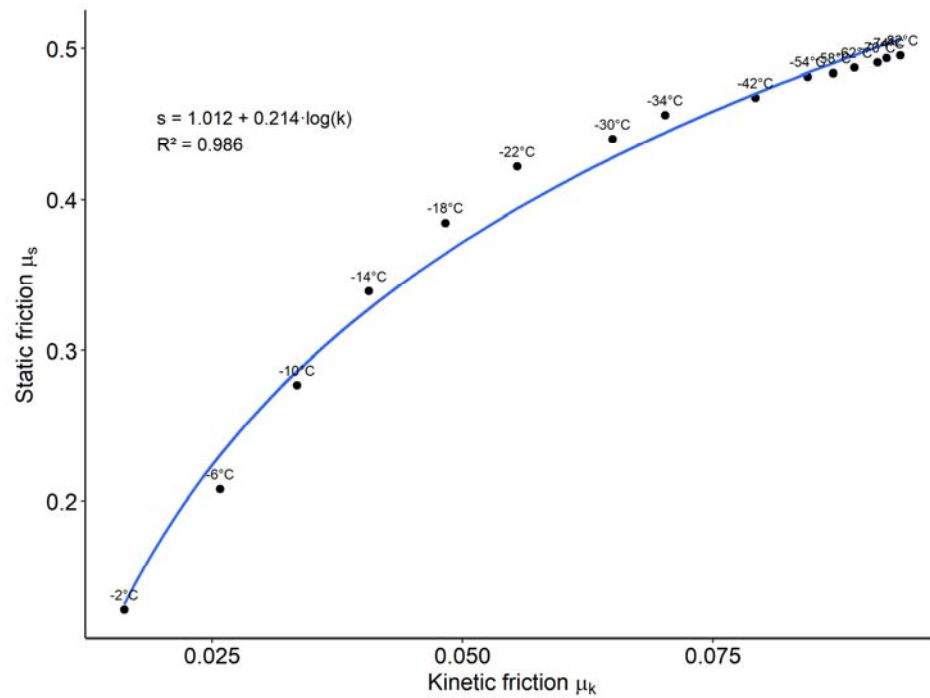


Figure S2. Relationship between static and kinetic friction based on the digitized data in Fig. S1. The log-linear model shows a linear relationship ($\mu_s = 1.012 + 0.214 \times \log(\mu_k)$, $R^2 = 0.986$), indicates that static and kinetic friction co-vary across temperature.

References

1. Bowden, F.P. & Tabor, D. The Friction and Lubrication of Solids. Oxford University Press, Oxford (2001). (Originally published 1950)