TW23.013 (27.2.23)

TWf INFORMATION SHEET No. 16

Friction: Sources of advice

In response to a request for advice about kinetic friction coefficients members suggested the following sources of information:

NOTE: This list is not intended to be exhaustive.

Typical coefficient of friction values for common materials, Shibashis Ghosh (2011), https://mechguru.com/machine-design/typical-coefficient-of-friction-values-for-common-materials/

Friction factors, Roymech.org (2020), https://roymech.org/Useful_Tables/Tribology/co_of_frict.html

BS 5975: 2019, Code of practice for temporary works procedures and the permissible stress design of falsework, BSI (2019), Table 25, https://knowledge.bsigroup.com/products/code-of-practice-for-temporary-works-procedures-and-the-permissible-stress-design-of-falsework/standard

NOTE: Based on research undertaken at the University of Birmingham

Friction in temporary works, University of Birmingham, Health and Safety Executive (2003), https://www.hse.gov.uk/research/rrpdf/rr071.pdf

Fastener Design Manual, NASA Reference Publication 1228, Barrett (1990), http://engineeringlibrary.org/reference/fastener-torque-nasa-design-manual

Threaded Fasteners - Tightening to Proper Tension, MIL-HDBK-60 (1990), http://engineeringlibrary.org/reference/threaded-fastener-preload-mil-hdbk

CIRIA Report 68, Lateral movement of heavy loads (1977), Table 2, https://www.ciria.org/

NOTE: Hyperlinks accessed on 25th February 2023

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