

Coefficient of Friction.

Method: ASTM C1028 “Determining the Static Coefficient of Friction of Ceramic Tile and Other like Surfaces by The Horizontal Dynamometer Pull-Meter Method”

This uses a 50 lb. weight, which is placed onto a piece of plywood, with the bottom of the plywood having Neolite attached to it. Neolite is a form of leather commonly used for the soles of shoes. The edge of the plywood has an eye hook, which is used for pulling in a lateral motion by the force measuring gauge. The weighted assembly is pulled in both longitudinal and transverse directions, in wet and dry conditions, to determine the COF. Static COF is the force required to get the weighted Neolite assembly to move, and Sliding COF is the force required to continue movement over a distance. The COF is determined by dividing the force for movement by the number of pulls times the weight.

Condition	Static COF	Sliding COF
Dry	0.49	0.46
Wet	0.56	0.54

It is possible for some materials to exhibit a slightly higher COF under wet conditions. The combination of the leather against the rubber, with a grooved flooring, created a gripping, or suction, effect.