



***Wet Coefficient of Friction
Lab Test Report***

**Prepared For:
Chandler Balch
Director, Technical Services
Skudo, LLC**

**Prepared By:
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Technical Report

TRACTION AUDITING REPORT NUMBER: SS02012019

CUSTOMER NAME: Chandler Balch
Director, Technical Services

TEST DATE: 02/01/2019

SUBJECT MATERIAL: Skudo board **TEST DEVICE:** GS-1 Serial # 14A021 Calibrated 02/01/2019

TEST PROCEDURE: ANSI/NFSI B101.3-2012 Wet Dynamic Coefficient of Friction
ANSI/NFSI B101.1-2009 Wet Static Coefficient of Friction

TEST RESULTS:

Wet SCOF

Date	Time	Client	Case	Location	Condition	Test Pad	Oper	SCoF	AVG
1-Feb-19	2:16:30 PM	Skudo	Gray	TA 1	Distilled Water	Neolite	BAJ	0.62	
1-Feb-19	2:17:13 PM	Skudo	Gray	TA 1	Distilled Water	Neolite	BAJ	0.64	
1-Feb-19	2:17:43 PM	Skudo	Gray	TA 1	Distilled Water	Neolite	BAJ	0.65	
1-Feb-19	2:18:25 PM	Skudo	Gray	TA 1	Distilled Water	Neolite	BAJ	0.71	0.65
1-Feb-19	2:28:02 PM	Skudo	Gray	TA 2	Distilled Water	Neolite	BAJ	0.65	
1-Feb-19	2:28:36 PM	Skudo	Gray	TA 2	Distilled Water	Neolite	BAJ	0.7	
1-Feb-19	2:29:03 PM	Skudo	Gray	TA 2	Distilled Water	Neolite	BAJ	0.69	
1-Feb-19	2:29:35 PM	Skudo	Gray	TA 2	Distilled Water	Neolite	BAJ	0.65	0.67
1-Feb-19	2:34:09 PM	Skudo	Gray	TA 3	Distilled Water	Neolite	BAJ	0.68	
1-Feb-19	2:34:44 PM	Skudo	Gray	TA 3	Distilled Water	Neolite	BAJ	0.73	
1-Feb-19	2:35:15 PM	Skudo	Gray	TA 3	Distilled Water	Neolite	BAJ	0.71	
1-Feb-19	2:35:45 PM	Skudo	Gray	TA 3	Distilled Water	Neolite	BAJ	0.77	0.72

Wet DCOF

Date	Time	Client	Case	Location	Condition	Test Pad	Oper	DCoF	AVG
1-Feb-19	2:24:27 PM	Skudo	Gray	TA 1	SLS	SBR	BAJ	0.33	
1-Feb-19	2:24:59 PM	Skudo	Gray	TA 1	SLS	SBR	BAJ	0.34	
1-Feb-19	2:25:26 PM	Skudo	Gray	TA 1	SLS	SBR	BAJ	0.32	
1-Feb-19	2:25:54 PM	Skudo	Gray	TA 1	SLS	SBR	BAJ	0.34	0.33
1-Feb-19	2:31:07 PM	Skudo	Gray	TA 2	SLS	SBR	BAJ	0.39	
1-Feb-19	2:31:33 PM	Skudo	Gray	TA 2	SLS	SBR	BAJ	0.39	
1-Feb-19	2:31:56 PM	Skudo	Gray	TA 2	SLS	SBR	BAJ	0.36	
1-Feb-19	2:32:21 PM	Skudo	Gray	TA 2	SLS	SBR	BAJ	0.4	0.39
1-Feb-19	2:37:24 PM	Skudo	Gray	TA 3	SLS	SBR	BAJ	0.39	
1-Feb-19	2:37:54 PM	Skudo	Gray	TA 3	SLS	SBR	BAJ	0.35	
1-Feb-19	2:38:21 PM	Skudo	Gray	TA 3	SLS	SBR	BAJ	0.35	
1-Feb-19	2:38:49 PM	Skudo	Gray	TA 3	SLS	SBR	BAJ	0.36	0.36



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DATA INTERPRETATION

For Wet Static Coefficient of Friction results interpreted per the ranges set forth in the ANSI/NFSI B101.1-2009 Test Method for Measuring Wet Static Coefficient of Friction of Common Hard Surface Floor Materials

For Wet Dynamic Coefficient of Friction results interpreted per the ranges set forth in the: ANSI/NFSI B101.3-2012 Test Method for Measuring Wet Dynamic Coefficient of Friction of Common Hard Surface Floor Materials

Table 1-ANSI/NFSI B101.1-2009

Wet SCOF Value (μ)	Available Traction	Remediation
$m\mu \geq 0.60$	High Traction - Lower probability of slipping	Monitor SCOF regularly and maintain cleanliness.
$0.40 \leq m\mu < 0.60$	Moderate Traction - Increased probability of slipping	Monitor SCOF regularly and maintain cleanliness. Consider traction enhancing products and technologies.
$m\mu < 0.40$	Minimal Available Traction - Higher probability of slipping	Seek professional intervention. Consider replacing flooring and/or coating with high traction products.

NOTE: It is important to note that these categories are not indicative of all possible conditions. There are numerous variables that may add to, or take from the available traction of any given floor surface. (ie: type or style of footwear, types and frequency contaminants, pedestrian preoccupation, etc). These ranges were established based on a list of approved tribometers, which were in turn based on a specific set of selection criteria. As such, these values contained in Table 1. have not been validated against the full range of other tribometers. Data produced by tribometers which are not designed to measure wet SCOF do not necessarily correlate to the values listed in Table 1.

Table 1- ANSI/NFSI B101.3-2012

Wet DCOF Value (μ)	Slip Resistance Potential	Action
>0.45 (inclines) $m\mu > 0.42$	High - Lower probability of slipping	Monitor DCOF regularly and maintain cleanliness.
$0.30 \leq \mu < 0.45$ (inclines) $0.30 \leq m\mu < 0.42$	Acceptable - Increased probability of slipping	Monitor DCOF regularly and maintain cleanliness. Consider traction enhancing products and technologies.
$m\mu < 0.30$	Low - Higher probability of slipping	Seek professional intervention. Consider replacing flooring and/or coating with high traction products.

**NOTE: It is important to note that these categories are not indicative of all possible conditions. There are numerous variables that may add to, or take from the available traction of any given floor surface. (ie: type or style of footwear, types and frequency contaminants, pedestrian preoccupation, etc.) The DCOF ranges were established based on research done in Europe utilizing empirical and mathematical techniques and were validated in the laboratory and field through extensive testing with the following standardized methods: DIN 13287 – BST Tester; DIN 51130 – German Ramp; DIN 51131 – GMG 2000 Tester. These values would be applicable to other test methods or devices which can produce an R correlation of greater than 0.80 to one of these three reference standards. Data produced by tribometers which are not designed to measure wet DCOF do not necessarily correlate to the values listed in Table 1. Results of dry and wet tests should be view independent of each other, and not compared.*

Test completed and testified to by:

Brent A. Johnson

ANSI/WACH 0001

02/01/2019