CSM Instruments SA
Rue de la Gare 4
2034 Peseux - Switzerland

Pin-On-Disk Tribometer Airglide

No Treated

3'000 laps

Tribo parameters

Tribometer module / Version 4.4.L

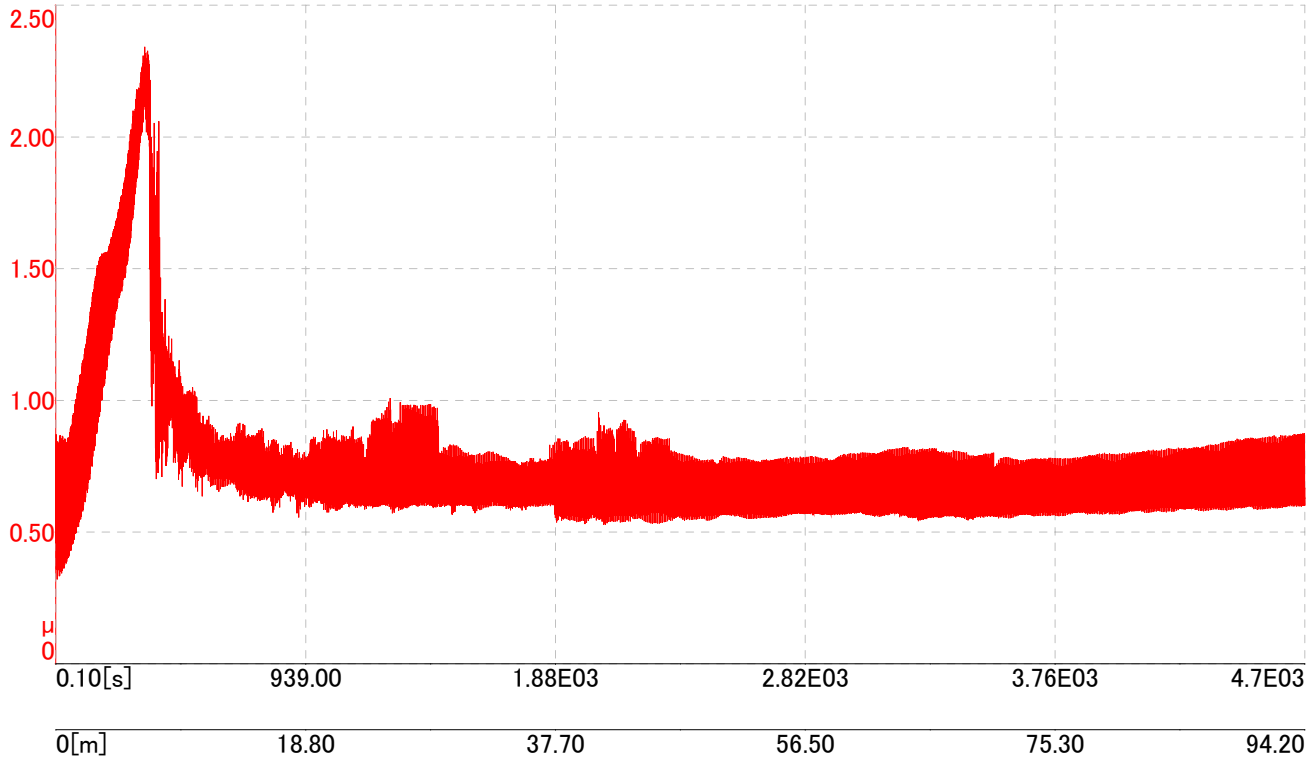
Acquisition
- Radius : 5.00 [mm]
- Lin. Speed : 2.00 [cm/s]
- Normal load : 2.00 [N]
- Stop condit. : 10000.0 [lap]
- Effective Stop : Laps
- Acquisition rate : 5.0 [hz]

Static partner
- Supplier : CSM
- Dimension : 6.00 [mm]
- Geometry : Ball

Environment
- Temperature : 25.00 [<deg>C]

Atmosphere : air
- Humidity : 40.00 [%]

Sample	Static partner	Calculations
Worn track section : 0.0 µm2	Worn cap diameter : 0.0 µm	Sample wear rate : 0 mm3/n/m
Young's modulus : 0.0 gpa	Young's modulus : 0.0 gpa	Partner wear rate : 0 mm3/n/m
Poisson ratio : 0.000	Poisson ratio : 0.000	Max Herzian stress : 0 gpa



Start : 0.458 min : 0.321 max : 2.342 mean : 0.739 std. dev. : 0.250

Friction coef.

10'000 laps

Tribo parameters

Tribometer module / Version 4.4.L

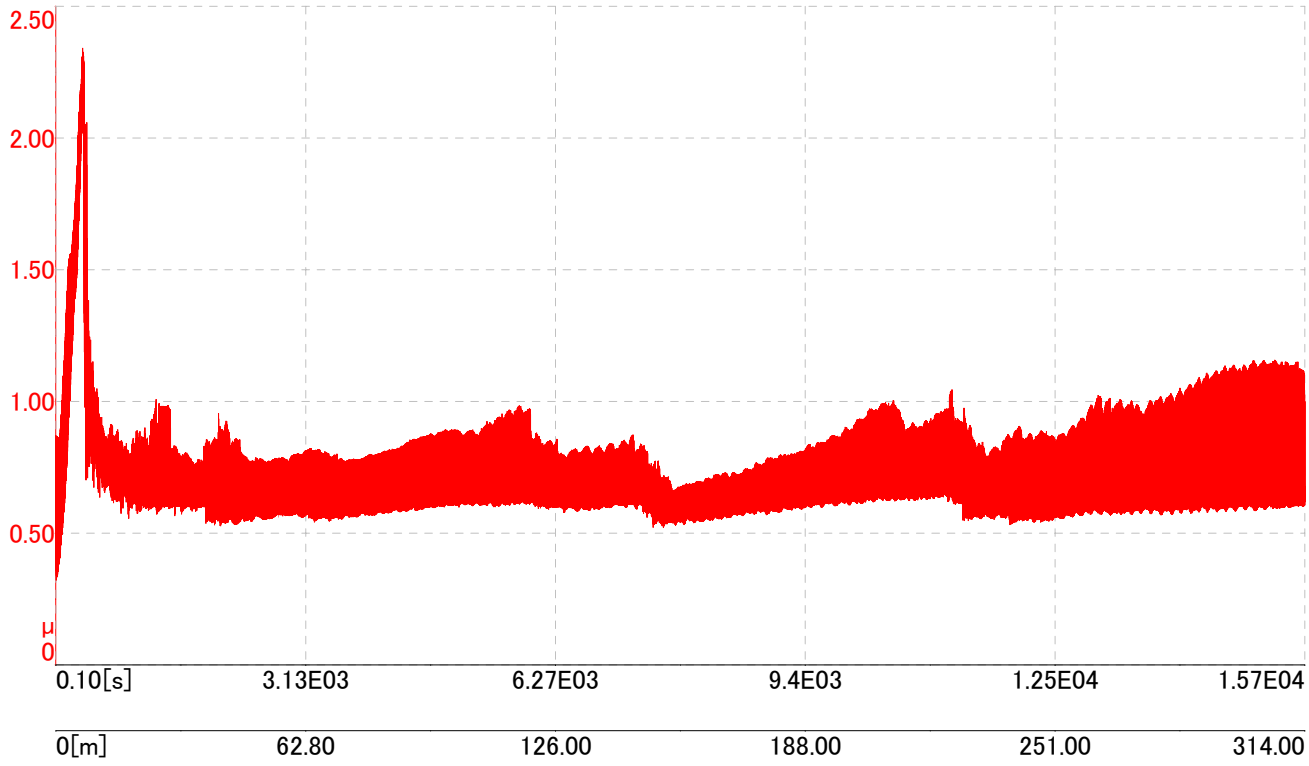
Acquisition
- Radius : 5.00 [mm]
- Lin. Speed : 2.00 [cm/s]
- Normal load : 2.00 [N]
- Stop condit. : 10000.0 [lap]
- Effective Stop : Laps
- Acquisition rate : 5.0 [hz]

Static partner
- Supplier : CSM
- Dimension : 6.00 [mm]
- Geometry : Ball

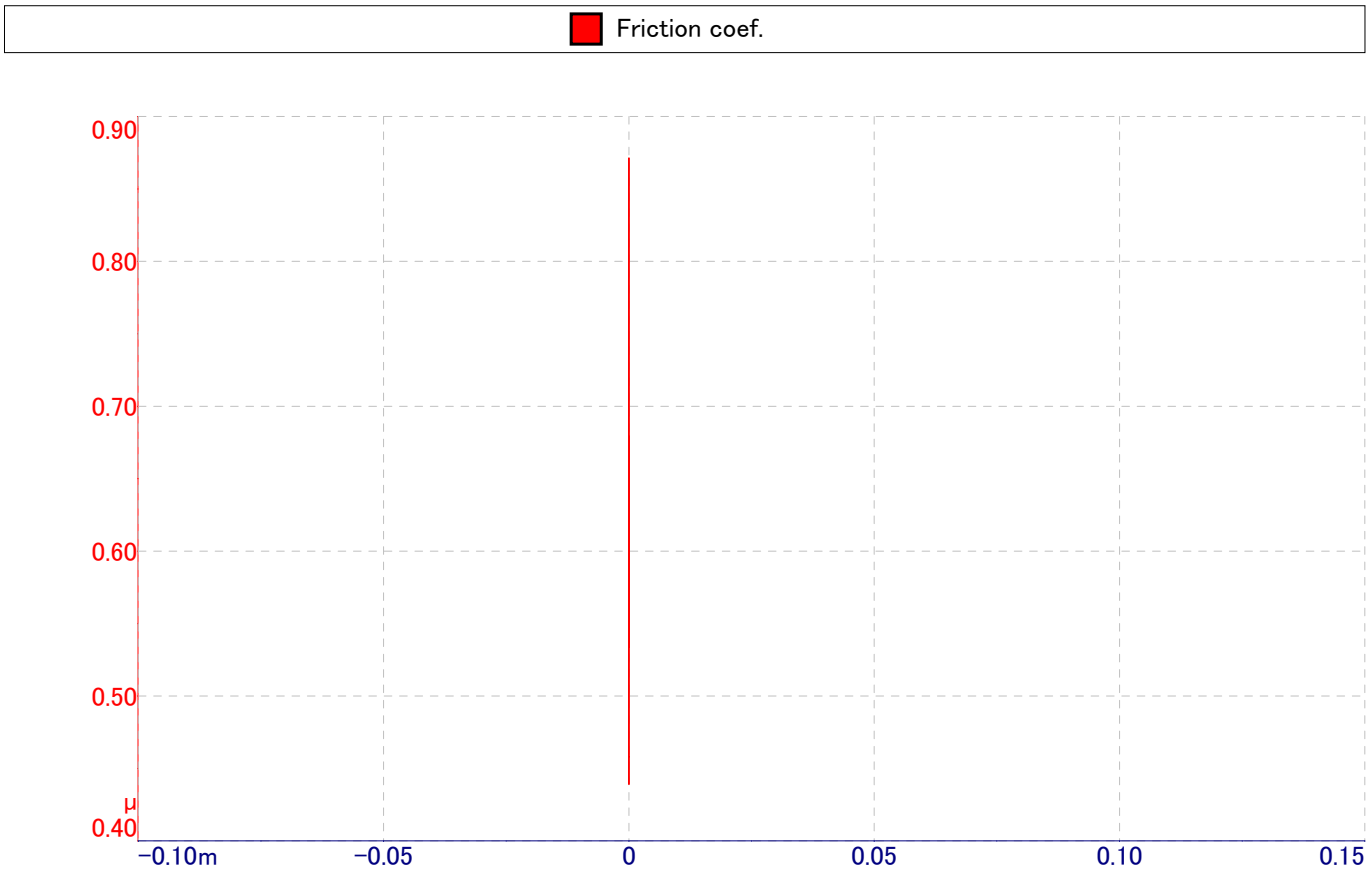
Environment
- Temperature : 25.00 [<deg>C]

Atmosphere : air
- Humidity : 40.00 [%]

Sample	Static partner	Calculations
Worn track section : 0.0 µm2	Worn cap diameter : 0.0 µm	Sample wear rate : 0 mm3/n/m
Young's modulus : 0.0 gpa	Young's modulus : 0.0 gpa	Partner wear rate : 0 mm3/n/m
Poisson ratio : 0.000	Poisson ratio : 0.000	Max Herzian stress : 0 gpa




Start : 0.458 min : 0.321 max : 2.342 mean : 0.706 std. dev. : 0.162
2.50
2.00
1.50
1.00
0.50
μ
0
0.10[s]
3.13E03
6.27E03
9.4E03
1.25E04
1.57E04
0[m]
0
0
0
0
0
0[lap]
0
0
0
0
0


Friction coef.
0.90
0.80
0.70
0.60
0.50
μ
0.40
−0.10m
−0.05
0
0.05
0.10
0.15

Treated

3'000 laps

Tribo parameters

Tribometer module / Version 4.4.L

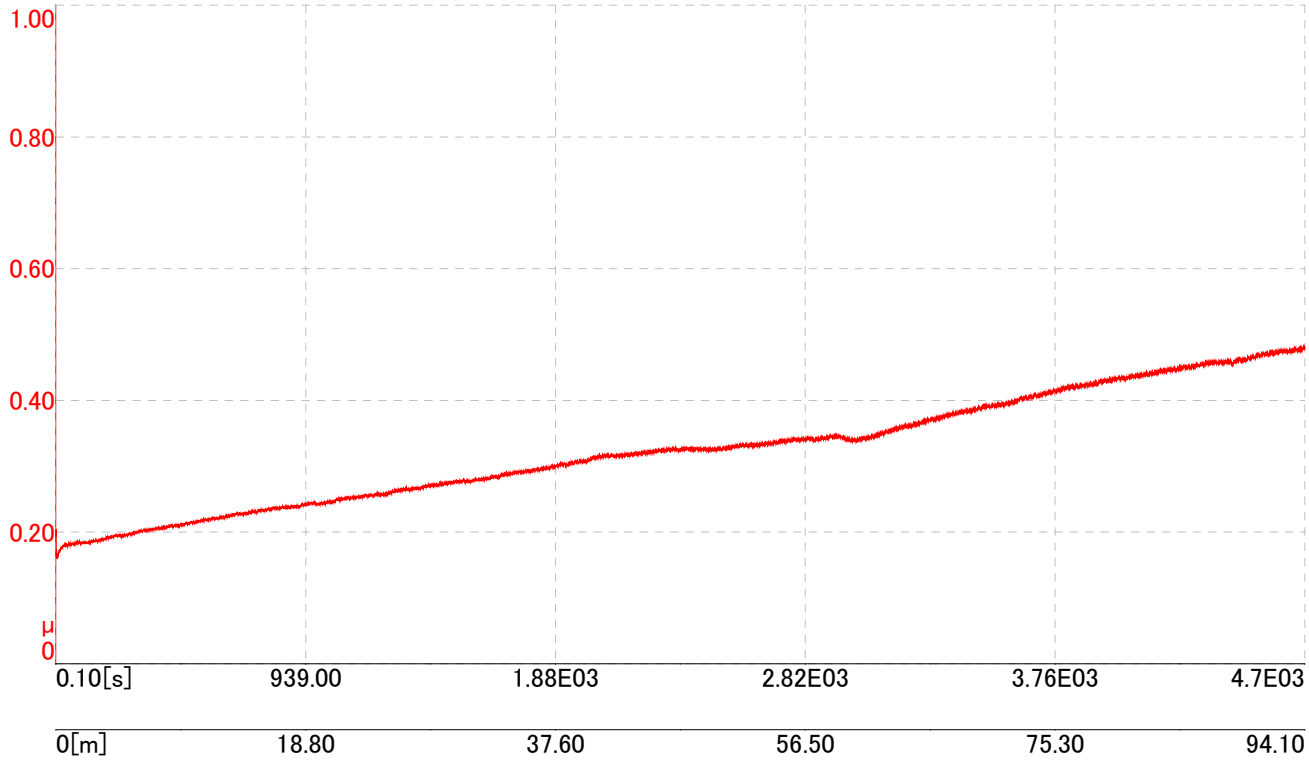
Acquisition
- Radius : 5.00 [mm]
- Lin. Speed : 2.00 [cm/s]
- Normal load : 2.00 [N]
- Stop condit. : 10000.0 [lap]
- Effective Stop : Laps
- Acquisition rate : 5.0 [hz]

Static partner
- Supplier : CSM
- Dimension : 6.00 [mm]
- Geometry : Ball

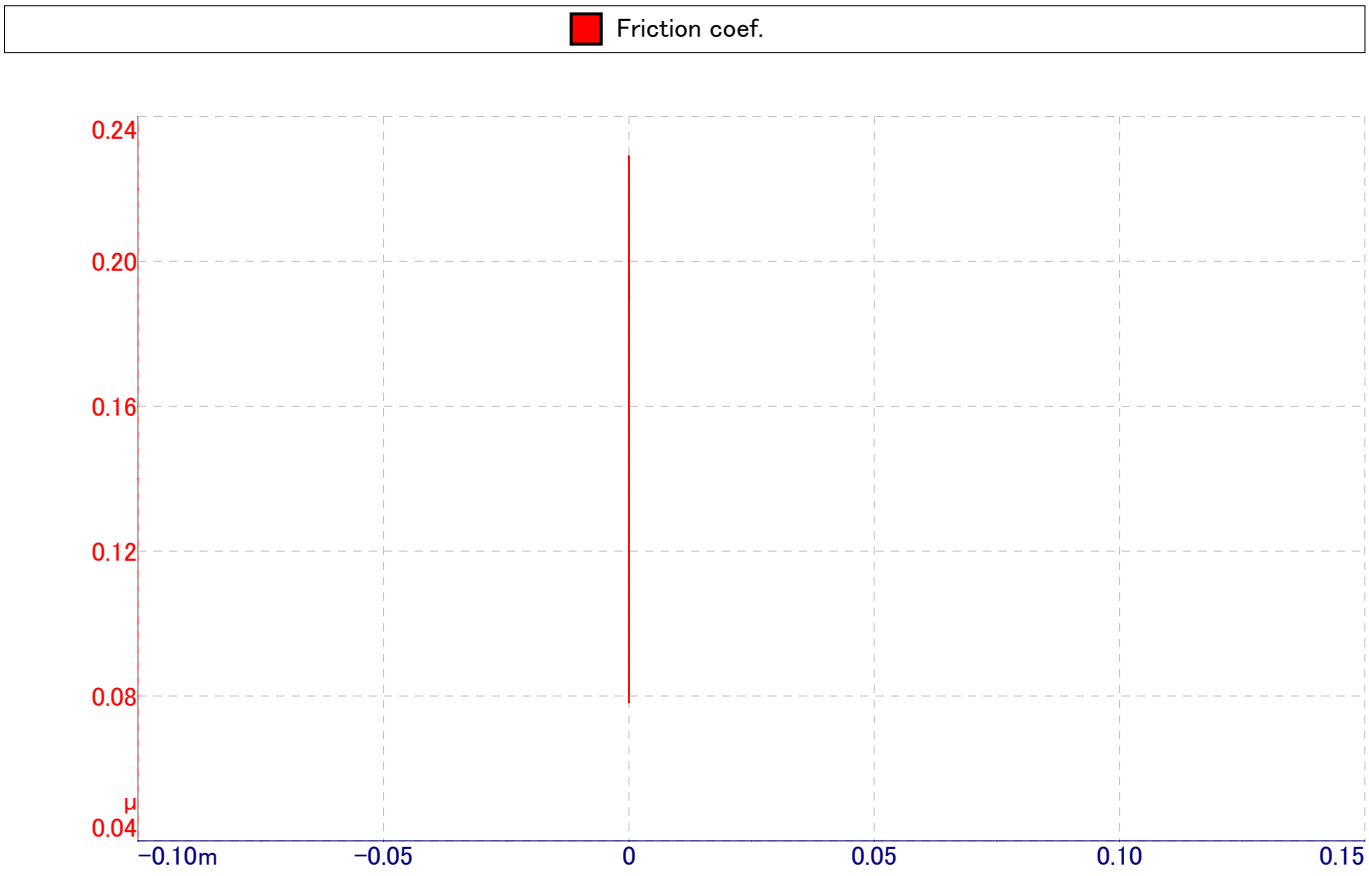
Environment
- Temperature : 25.00 [<deg>C]

Atmosphere : air
- Humidity : 40.00 [%]

Sample	Static partner	Calculations
Worn track section : 0.0 µm2	Worn cap diameter : 0.0 µm	Sample wear rate : 0 mm3/n/m
Young's modulus : 0.0 gpa	Young's modulus : 0.0 gpa	Partner wear rate : 0 mm3/n/m
Poisson ratio : 0.000	Poisson ratio : 0.000	Max Herzian stress : 0 gpa




Start : 0.196 min : 0.159 max : 0.481 mean : 0.324 std. dev. : 0.083
1.00
0.80
0.60
0.40
0.20
μ
0
0.10[s]
939.00
1.88E03
2.82E03
3.76E03
4.7E03
0[m]
0
0
0
0
0
0[lap]
0
0
0
0
0


Friction coef.
0.24
0.20
0.16
0.12
0.08
μ
0.04
−0.10m
−0.05
0
0.05
0.10
0.15

10'000 laps

Tribo parameters

Tribometer module / Version 4.4.L

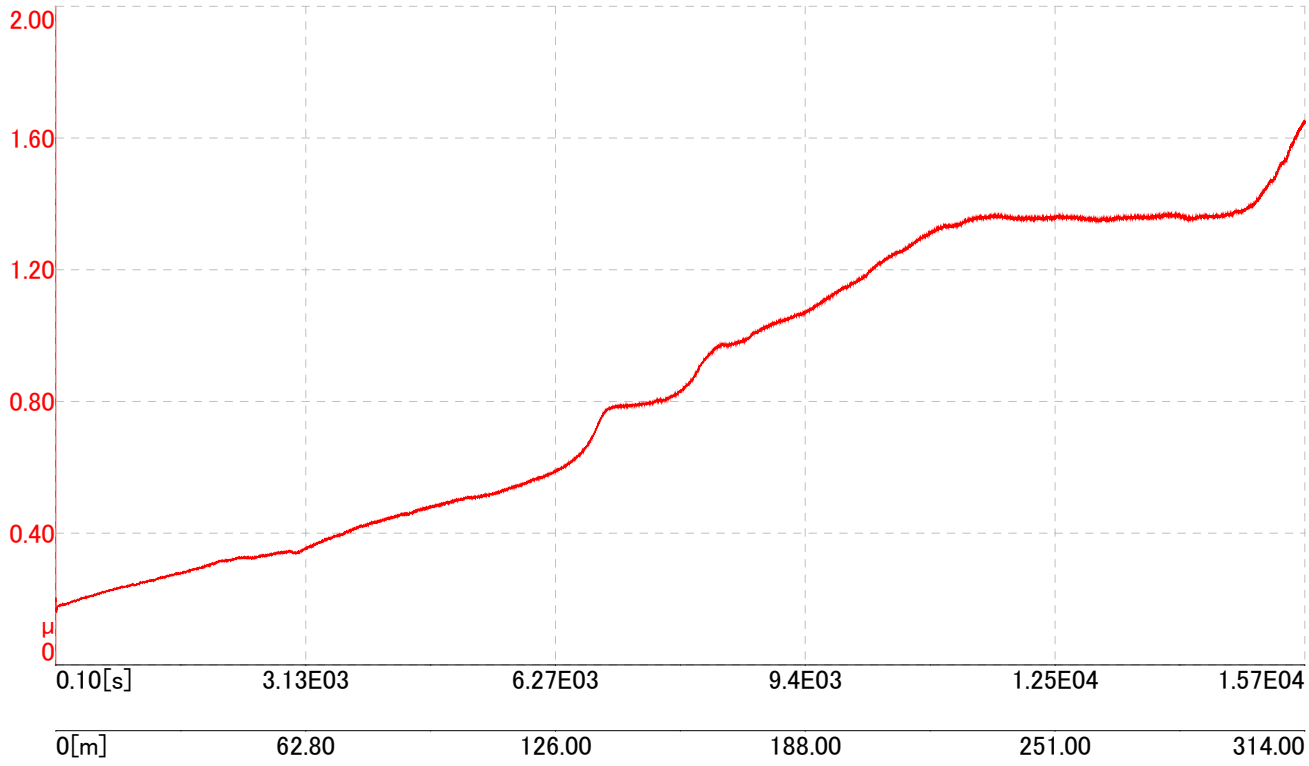
Acquisition
- Radius : 5.00 [mm]
- Lin. Speed : 2.00 [cm/s]
- Normal load : 2.00 [N]
- Stop condit. : 10000.0 [lap]
- Effective Stop : Laps
- Acquisition rate : 5.0 [hz]

Static partner
- Supplier : CSM
- Dimension : 6.00 [mm]
- Geometry : Ball

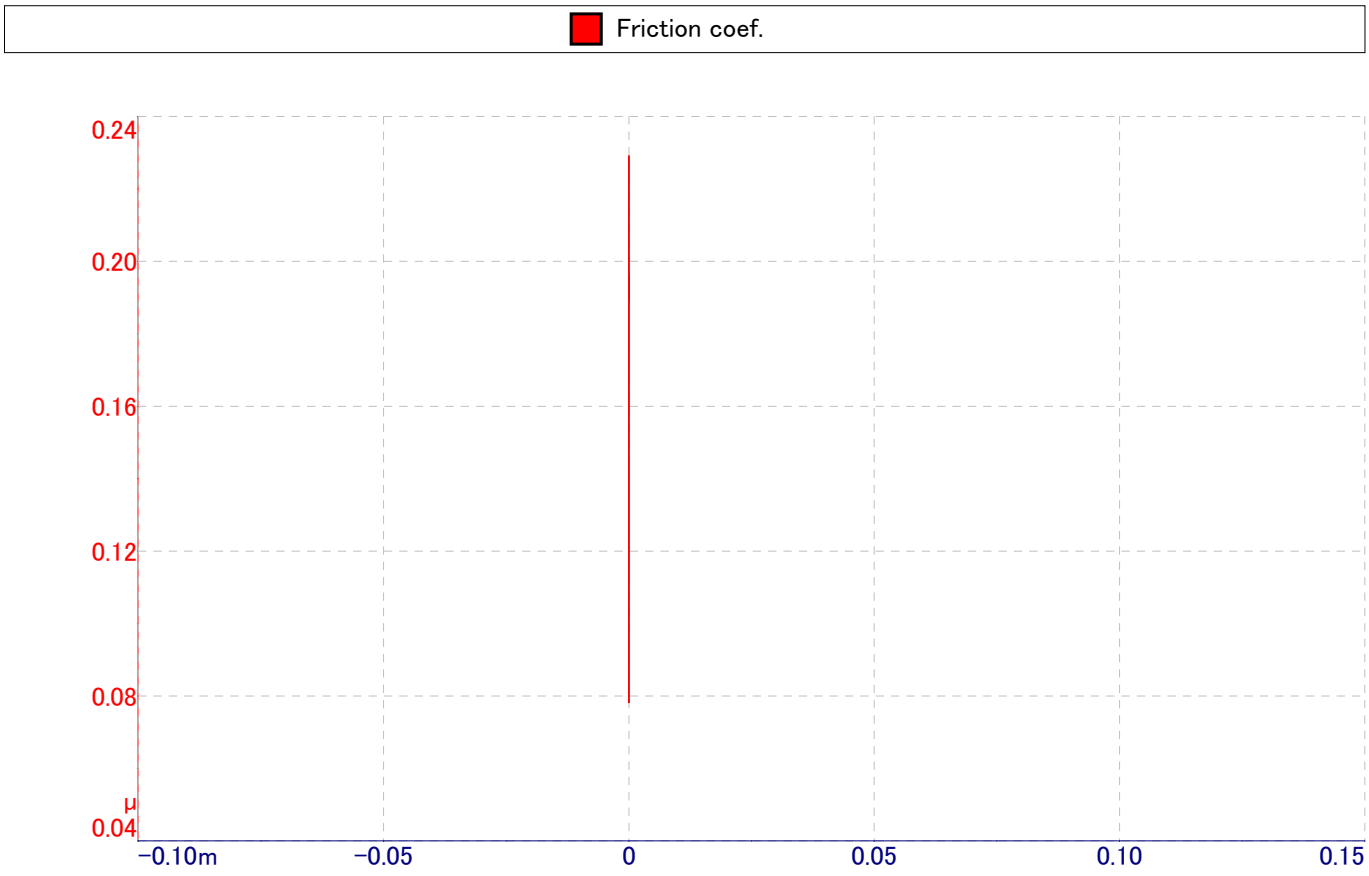
Environment
- Temperature : 25.00 [<deg>C]

Atmosphere : air
- Humidity : 40.00 [%]

Sample	Static partner	Calculations
Worn track section : 0.0 µm2	Worn cap diameter : 0.0 µm	Sample wear rate : 0 mm3/n/m
Young's modulus : 0.0 gpa	Young's modulus : 0.0 gpa	Partner wear rate : 0 mm3/n/m
Poisson ratio : 0.000	Poisson ratio : 0.000	Max Herzian stress : 0 gpa




Start : 0.196 min : 0.159 max : 1.655 mean : 0.855 std. dev. : 0.443
2.00
1.60
1.20
0.80
0.40
μ
0
0.10[s]
3.13E03
6.27E03
9.4E03
1.25E04
1.57E04
0[m] 0 0 0 0 0
0[lap] 0 0 0 0 0


Friction coef.
0.24
0.20
0.16
0.12
0.08
μ
0.04
−0.10m
−0.05
0
0.05
0.10
0.15

Summary