

Coefficient of Friction Tester

Project Overview

High speed data collection is required to determine the coefficients of starting (static) and sliding (dynamic) friction of flexible materials when sliding over themselves or other surfaces. To this end, software has been developed to be used with the CF800XS Coefficient Of Friction Tester to gather, correlate and analyse test data.

TUP TEST DATA SPC								fri Jun 1	7 11:04:	53 200	1 0
	20110509-153	31 - Fim - RDM									
60-					Date / Time	Peak Force g	Mean Force p	Static C of F	C at F	Pess or Fail	01
40-			1		09/05/2011 15/31/39	52.92	51.01	0.270	0.259	Pass	0
30- 1			2	۰.	15:23:10	52.82	50.95	0.264	0.255	Pass	0
23-			3		15:34:03	54.12	50.42	0.271	0.257	Oass	0
10-			4		15:25:05	53.73	48.92	0.264			0
- II.	1		5	•	15:36:06	52.68	30.54	0.263	0,257	Pers	
-10-			6		15:37:201 15:37:20 09:05/2011	53.31	51.43	0.266	0.259	Pass	
0.000 5.000 10.000 15.000 20	.000 25.000 30.000 3 - Seconds	5.000 41.000	7		15:38:58	53.65	51.29	0.268	0.260	Pars	
1471G			8	1	15:29:36	53.09.	49.46	0.269	0.259	PARE	.0
	-		3	1	09/05/2011 15:41:05	54.37	49.77	0.272	0.761	Date	0
0.000 0.200 0.200 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000			3	~	Mean:	54.27 53.63 0.504	49,77 50,43 0,830	0.272	7 0.3	0 bes	•
2.20			3	V	Mean: 5.0.1	53.63	50.43	0.26	7 0.	258	•
0.360			3	~	Mean:	53.63 0.504	50,43	0.26	7 0.3	258	•



As tests are required to be done under specified 'laboratory' conditions to international BSI, DIN, ISO & ASTM standards. The software walks the operator through the procedures of setting up the machine, calibration and testing in a simple and straight forward manner.

High speed data collection (up to 200Hz) ensures that precise coefficient of friction data is recorded and plotted. SPC analysis aids tracking of variations in production materials.

Extra functionality allows for the entry of test limits for several test materials, archiving of test results for later recall and analysis, data compatibility with other Windows packages and graphical and tabular presentation of data in test reports.

