



**FRICCIONES  
UNIVERSALES**



## Sample Lab Test Report

**Link Test Report #:** 170019-4  
**Test Description:** SAE J661 Rev Feb 1997 Brake Lining Quality Test  
**Purpose of Test** To Evaluate the Characteristics of Brake Materials  
**Program #:** BRW16008A0  
**Lining Material:** P.VO.165  
**Test Date(s):** 16/02/2017

### Requested By:

**Fricciones Universales S.A**  
**Alfredo Tomas Bertucci**  
Cuenca 678/80 - V.Lynch  
San Martin - Prov. Bs.As  
Código Postal B1672AHN  
Argentina

### Tested By:

#### Testing Coordination and Facility

Link South America  
Avenida Jaraguá, 89  
Sorocaba, SP  
[www.linkeng.com](http://www.linkeng.com)  
Phone: (55) 15-3416-0600

## SAE J661 Rev Feb 1997 Brake Lining Quality Test

### Test Information

Customer Name	Fricciones Universales S.A
Requestor	Alfredo Tomas Bertucci
Test Procedure	SAE J661
Program Number	BRW16008A0
Test Coordinator	Pedro Oliveira
Test Equipment	Chase Machine #3443
Test Dates	16/02/2017
Datalogger	v1.0.10
Template Version	3.00

### Setup Details

Sample Material	P.VO.165
Sample Size	25.4 mm x 25.4 mm
Sample Manufacturer	Fricciones Universales
Test Pressure	150 psi

### Sample Test Summary

Normal Friction Coefficient	0.383
Normal Friction Class	F
Hot Friction Coefficient	0.369
Hot Friction Class	F
Minimum Bold Coefficient	0.278
Max Variation Below Average for Bold Readings	0.000
Max % Variation for Bold Readings	0.00%

### Comments:

Processed by:	Henrique Rodrigues +55 (15) 3416 0607	Title:	T. Q. Engineer Trainee	Date:	16/02/2017
Reviewed by:	Pedro Oliveira +55 (15) 3416 0604	Title:	T.E. Coordinator	Date:	16/02/2017

Signed by:

Data applicable to the materials tested. Report can be copied in full. Uncertainty of measurement available upon request.

<u>Sample 1</u> 170019-4		Test Number	Manufacturer <b>Fricciones Universales</b>	
Application <u>Sample 1</u>		<b>Initial Baseline</b>	Material <b>P.VO.165</b>	
1	0.376			
20	0.457			
Temp (°F) <u>Sample 1</u>		<b>First Fade</b>	Normal	<b>0.383 F</b>
200.0	0.453			
550.0	0.339			
(or Temp @ 10min)			Hot	<b>0.369 F</b>
Temp (°F) <u>Sample 1</u>		<b>First Recovery</b>	<u>Average</u>	<u>Norm/Hot</u>
500.0	0.438		0.438	
400.0	0.454		0.454	Hot
300.0	0.468		0.468	Hot
200.0	0.445		0.445	
Application <u>Sample 1</u>		<b>Wear</b>		
1	0.498			
100	0.295			
Temp (°F) <u>Sample 1</u>		<b>Second Fade</b>	<u>Average</u>	<u>Max Var.</u>
<b>200.0</b>	<b>0.346</b>		<b>0.346</b>	<b>0.000</b>
<b>250.0</b>	<b>0.413</b>		<b>0.413</b>	<b>0.000</b>
<b>300.0</b>	<b>0.423</b>		<b>0.423</b>	<b>0.000</b>
<b>350.0</b>	<b>0.389</b>		<b>0.389</b>	<b>0.000</b>
<b>400.0</b>	<b>0.348</b>		<b>0.348</b>	<b>0.000</b>
<b>450.0</b>	<b>0.360</b>		<b>0.360</b>	<b>0.000</b>
<b>500.0</b>	<b>0.372</b>		<b>0.372</b>	<b>0.000</b>
<b>550.0</b>	<b>0.425</b>		<b>0.425</b>	<b>0.000</b>
600.0	0.372		0.372	0.000
650.0	0.305		0.305	0.000
(or Temp @ 10min)				
Temp (°F) <u>Sample 1</u>		<b>Second Recovery</b>	<u>Average</u>	<u>Max Var.</u>
600.0	0.359		0.359	0.000
500.0	0.354		0.354	0.000
400.0	0.302		0.302	0.000
<b>300.0</b>	<b>0.278</b>		<b>0.278</b>	<b>0.000</b>
<b>200.0</b>	<b>0.336</b>		<b>0.336</b>	<b>0.000</b>
Application <u>Sample 1</u>		<b>Final Baseline</b>		
1	0.355			
20	0.430			



Manufacturer: Fricciones Universales  
 Material: P.VO.165  
 Test Pressure: 150 psi

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 170019-4  
 Sample 1 of 1

**Coefficient of Friction**

