

**VEHICLE EQUIPMENT SAFETY COMMISSION (VESC)  
 REGULATION V-3  
 MINIMUM REQUIREMENTS AND UNIFORM TEST PROCEDURES  
 FOR MOTOR VEHICLE BRAKE LININGS  
 BRAKE LINING TEST REPORT**

Manufacturer: International Motor Products, Inc.  
 11421 NW 39th Street  
 Doral, FL 33178  
 USA

Identification Markings: XBP CERAMIC PLUS-FG

**SUMMARY OF RESULTS FROM DATA SHEET**

**Normal Friction Coefficient** = Average of "N" values 0.423  
 (Shall be over 0.25) Class F

**Hot Friction Coefficient** = Average of "H" values 0.466  
 (Shall be over 0.15) Class G

<u>Class Code</u>	<u>Coefficient of Friction</u>
C	Not Over 0.15
D	Over 0.15 But Not Over 0.25
E	Over 0.25 But Not Over 0.35
F	Over 0.35 But Not Over 0.45
G	Over 0.45 But Not Over 0.55
H	Over 0.55

Lowest Coefficient for readings marked (\*) 0.360  
 (Shall not be less than 0.15)

Maximum absolute variation below average for readings marked (\*) 0.060  
 (Shall not exceed 0.050 unless percentage variation is 20% or less)

Maximum percentage variation for readings marked (\*) exceeding 0.050 below average 12.50 %

I certify that the above results were obtained on tests conducted in accordance with Vehicle Equipment Safety Commission Regulation V-3 on a five sample lot from the linings submitted by the manufacturer as being representative of those regularly manufactured and marketed by him.

This test report issued in Adobe® Acrobat® format only.

Original retained on file at  
 Greening Testing Laboratories, Inc.



Date: 24 October 2012

Signature: \_\_\_\_\_

**Greening Testing Laboratories, Inc.**

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**VEHICLE EQUIPMENT SAFETY COMMISSION (VESC)  
REGULATION V-3  
DATA SHEET**

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Test No. Test Date	FRICITION COEFFICIENT ( $\mu$ )					Average	Maximum Variation Below Average
	M22-360-11 17 Oct 12	M22-360-12 18 Oct 12	M22-360-25 24 Oct 12	M22-361-01 24 Oct 12	M22-361-02 24 Oct 12		
Appl. No.	<b>First Baseline Run</b>						
1	0.28	0.32	0.33	0.32	0.34	0.318	
20	0.35	0.38	0.33	0.36	0.38	0.360	
Temp (°F)	<b>First Fade Run</b>						
200	0.34	0.38	0.33	0.36	0.38	0.358	
550	0.44	0.43	0.45	0.41	0.44	0.434	
Min at 550°F °F at 10 min	4.4 --	4.5 --	4.4 --	4.5 --	4.3 --		
Temp. (°F)	<b>First Recovery Run</b>						
500	0.48	0.48	0.46	0.47	0.49	0.476	
400	0.49	0.49	0.46	0.48	0.51	H 0.486	
300	0.46	0.47	0.43	0.46	0.48	H 0.460	
200	0.38	0.41	0.36	0.40	0.41	0.392	
Appl. No.	<b>Wear Run</b>						
1	0.44	0.46	0.41	0.46	0.49	0.452	
100	0.43	0.41	0.38	0.53	0.51	0.452	
Temp. (°F)	<b>Second Fade Run</b>						
200	* 0.39	* 0.36	* 0.36	* 0.37	* 0.36	N 0.368	0.008
250	* 0.42	* 0.40	* 0.38	* 0.42	* 0.43	N 0.410	0.030
300	* 0.44	* 0.41	* 0.40	* 0.47	* 0.47	N 0.438	0.038
400	* 0.47	* 0.44	* 0.42	* 0.52	* 0.53	N 0.476	<b>0.056</b> 11.76%
450	* 0.49	* 0.44	* 0.42	* 0.52	* 0.53	H 0.480	<b>0.060</b> 12.50%
500	* 0.49	* 0.44	* 0.44	* 0.52	* 0.51	H 0.480	0.040
550	* 0.48	* 0.46	* 0.43	* 0.52	* 0.47	H 0.472	0.042
600	0.46	0.45	0.43	0.50	0.48	H 0.464	
650	0.44	0.44	0.42	0.46	0.46	H 0.444	
Min at 650°F °F at 10 min	5.9 --	6.2 --	6.3 --	5.6 --	5.5 --		
Temp. (°F)	<b>Second Recovery Run</b>						
600	0.47	0.46	0.44	0.50	0.51	0.476	
500	0.47	0.45	0.43	0.50	0.51	H 0.472	
400	0.47	0.45	0.43	0.48	0.50	H 0.466	
300	* 0.44	* 0.43	* 0.42	* 0.44	* 0.44	H 0.434	0.014
200	* 0.39	* 0.37	* 0.37	* 0.37	* 0.36	0.372	0.012
Appl. No.	<b>Second Baseline Run</b>						
1	0.40	0.38	0.37	0.37	0.37	0.378	
20	0.41	0.40	0.36	0.38	0.37	0.384	



## VEHICLE EQUIPMENT SAFETY COMMISSION (VESC) REGULATION V-3 AVERAGE DATA GRAPH

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