

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

BRAKE LINING TEST REPORT

Manufacturer: Xtender Automotive Corp Distributor: International Motor Products
CHINA USA

Identification Markings: XBP SEVERE DUTY-FF

SUMMARY OF RESULTS FROM DATA SHEET

Normal Friction Coefficient = Average of "N" values 0.445
(Shall be over 0.25) Class F

Hot Friction Coefficient = Average of "H" values 0.414
(Shall be over 0.15) Class F

<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 (*) 0.036
(Shall not exceed 0.050 unless percentage variation is 20% or less)

Maximum percentage variation for readings marked (*) exceeding 0.050 below average None

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.

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Original retained on file at
Greening Testing Laboratories, Inc.



Date: 05 September 2019 Signature: _____

Greening Testing Laboratories, Inc.

19465 Mt. Elliott Avenue
Detroit, MI USA 48234-2742

Phone: +1 313 366 7160 • Fax: +1 313 366 5415

Email: info@greeninginc.com • Web: www.greeninginc.com



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

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FRICTION COEFFICIENT (μ)							
Test No.	M22-650-13	M22-650-14	M22-651-03	M22-651-04	M22-651-05	Average	Maximum Variation Below Average
Test Date	29 Aug 19	29 Aug 19	04 Sep 19	04 Sep 19	05 Sep 19		
Appl. No.	First Baseline Run						
1	0.25	0.27	0.29	0.29	0.30	0.280	
20	0.29	0.28	0.31	0.31	0.32	0.302	
Temp. (°F)	First Fade Run						
200	0.29	0.28	0.31	0.31	0.32	0.302	
550	0.35	0.34	0.37	0.35	0.42	0.366	
Min at 550°F	6.0	6.1	5.9	6.4	5.5		
°F at 10 min	--	--	--	--	--		
Temp. (°F)	First Recovery Run						
500	0.38	0.38	0.43	0.40	0.45	0.408	
400	0.42	0.42	0.47	0.45	0.47	H 0.446	
300	0.44	0.42	0.47	0.45	0.46	H 0.448	
200	0.39	0.37	0.42	0.40	0.42	0.400	
Appl. No.	Wear Run						
1	0.43	0.39	0.43	0.42	0.44	0.422	
100	0.46	0.44	0.45	0.45	0.45	0.450	
Temp. (°F)	Second Fade Run						
200	* 0.43	* 0.43	* 0.43	* 0.42	* 0.44	N 0.430	0.010
250	* 0.44	* 0.45	* 0.43	* 0.44	* 0.45	N 0.442	0.012
300	* 0.46	* 0.46	* 0.43	* 0.44	* 0.46	N 0.450	0.020
400	* 0.47	* 0.44	* 0.45	* 0.46	* 0.46	N 0.456	0.016
450	* 0.47	* 0.48	* 0.45	* 0.47	* 0.46	H 0.466	0.016
500	* 0.46	* 0.46	* 0.46	* 0.46	* 0.47	H 0.462	0.002
550	* 0.42	* 0.40	* 0.42	* 0.40	* 0.41	H 0.410	0.010
600	0.37	0.37	0.36	0.35	0.37	H 0.364	
650	0.31	0.32	0.30	0.33	0.32	H 0.316	
Min at 650°F	8.8	8.5	9.6	7.8	9.1		
°F at 10 min	--	--	--	--	--		
Temp. (°F)	Second Recovery Run						
600	0.35	0.36	0.33	0.34	0.37	0.350	
500	0.40	0.39	0.37	0.38	0.40	H 0.388	
400	0.42	0.40	0.41	0.44	0.41	H 0.416	
300	* 0.43	* 0.39	* 0.45	* 0.45	* 0.41	H 0.426	0.036
200	* 0.37	* 0.36	* 0.41	* 0.39	* 0.37	0.380	0.020
Appl. No.	Second Baseline Run						
1	0.38	0.38	0.41	0.40	0.39	0.392	
20	0.40	0.37	0.37	0.37	0.38	0.378	

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

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