

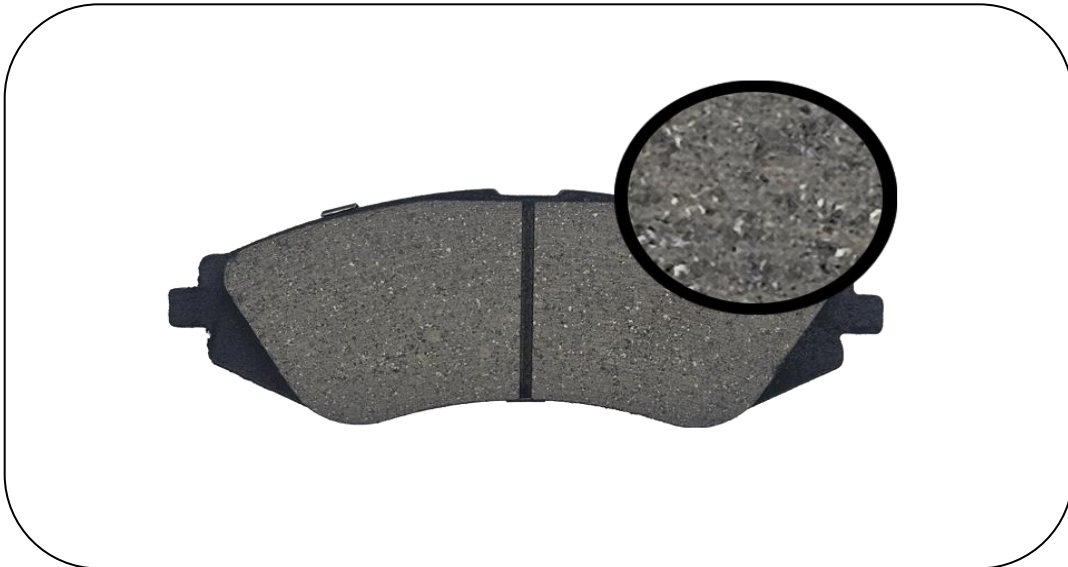


Ceramic Plus Brake Pads Profile

Perfil de las Pastillas Ceramica Plus



Characteristics



Friction Coefficient FF

Low Fade

Flash Mold Production

Excellent Stopping Power

Materials: - Carbon Elements
- Ceramic
- Others

Long Life

Low Dust



Physical Properties

a. Physical Properties

Density

	Temperature [°C]	Operation	Remarks
1	R.T.	Weight	In Air
2	R.T.	Weight	In Water

Hardness

	Scale	Rockwell	Penetrator Diameter,mm	Standards Loading [N]	Test Loading [N]
1	R	HRR	12.7	98.07	588.4

pH Value

	Scale	pH Value (Buffer Solution)	Soak Solution
1	0.00~14.00	4.00,6.86,9.18	KCl(aq.3mol/L)

Shear Strength

	Positive Pressure [MPa]	Shear Force [KN]	Loading Ratio [N/s]	Power [KW]
1	0-0.5	0-100	4500±500	1.5

Porosity

	Temperature [°C]	Time [hr]	Remarks
1	90±10	8	In Oil
2	90±10→R.T.	Over 12	In Oil

Impact Strength

	Impact Speed [m/s]	Impact Power [J]	Impact Angel [°]	Sample size [mm]
1	2.9	0.5	150	55*10*6

Physical Properties

b. Physical Properties

Density (g/cm ³)	2.45~2.55	Hardness/HRR	65~75
pH Value	8.50~9.00	Shear (N/mm ²)	>3.0
Porosity/%	17.50~20.50	Impact (KJ/m ²)	1.200~1.500

Compressibility

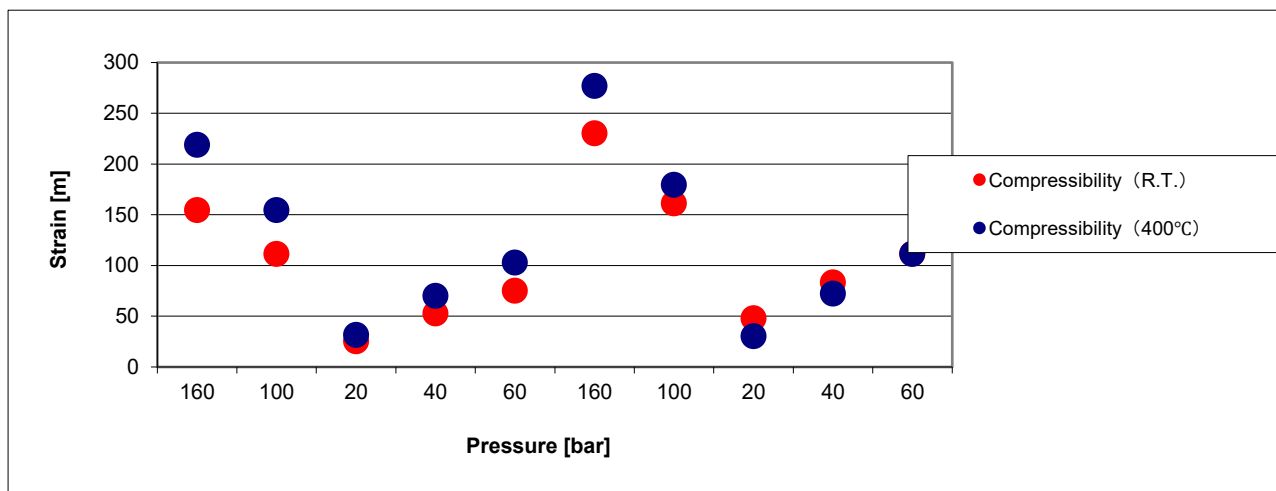
	Load Increment Ratio [Mpa/sec]	Initial Loading [Mpa]	Test Loading [Mpa]	Cycle
1	8±1	0.5	2~16	3

Compressibility (R.T.)

Load/bar	160	100	20	40	60	160	100	20	40	60
Cycle	3↓	3↑	3↑	3↑	3↑	1↓	1↑	1↑	1↑	1↑
Mean Value	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]
	154.5	111.4	25.2	52.5	75.0	230.3	161.0	48.0	83.1	111.7

Compressibility (400°C)

Load/bar	160	100	20	40	60	160	100	20	40	60
Cycle	2↓	2↑	2↑	2↑	2↑	1↓	1↑	1↑	1↑	1↑
Mean Value	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]	[μm]
	218.8	154.4	31.6	70.1	102.8	276.8	179.4	30.3	72.2	111.2



SAE J-661 Chase Test



Physical Properties Test Report

Link Test Report: 260682-02
Test Description: SAE J661-2021

Purpose of Test: To Evaluate the Characteristics of Brake Materials

Material Identification: XBP CERAMIC
Test Date: 07/24/2026 - 07/25/2026

Requested By:

International Motor Products, Inc.
宋中宇

Tested By

Testing Coordination and Facility

Link Transportation Testing Technology (Shanghai) Co., Ltd
Building No.2, 778 Zhao Xian Road, Jiading District, Shanghai
Shanghai, 201821
www.linkeng.com
Phone: (021) 5916-5656
Fax: (021) 5916-5959

SAE J-661 Chase Test



Test Request #:
260682-02

Customer Ref:
C-1098

SAE J661-2021

Test Information

Customer Name	International Motor Products, Inc.
Requestor	宋中宇
Program Number	J661noinsp.chp
Test Coordinator	Fiona Song
Test Equipment	Chase Machine
Test Dates	07/24/2026 - 07/25/2026
Datalogger	v1.0.23
Template Version	1.83

Setup Details

Sample Material	XBP CERAMIC
Sample Size	1 inch x 1 inch
Sample Manufacturer	International Motor Products, Inc.
Test Pressure	150.0 psi

Sample Test Summary

Normal Friction Coefficient	0.474	Pass
Normal Friction Class	G	
Hot Friction Coefficient	0.439	Pass
Hot Friction Class	F	
Minimum Bold Coefficient	0.387	Pass
Max Variation Below Average for Bold Readings	0.044	Pass
Max % Variation for Bold Readings	9.95%	Pass

Pass / Fail

Pass

Comments:

N/A

Created by: Fiona Song

Signature: 宋文娟
日期: 2026.07.31 09:57:54 +08'00'

Date: 7/30/2026

Reviewed by: Duel Tang

Signature: 唐磊鸣
2026.07.31 10:28:34 +08'00'

Date: 7/30/2026



Customer Ref:
C-1098

G

F

Sample 1 of 5

	Initial	Final	Loss	Loss / %
Weight (gr)	8.78	8.34	0.44	5.01
Thickness (inch)	0.239	0.230	0.009	3.97

	Initial		Final	
Event	Force (lb)	μ	Force (lb)	μ
1	43.5	0.290	58.1	0.390
5	43.8	0.287	57.7	0.376
10	44.9	0.295	52.6	0.350
15	46.6	0.305	48.8	0.321
20	47.6	0.314	48.2	0.319

Event	Force (lb)	μ
1	59.5	0.387
10	71.4	0.470
20	76.1	0.492
30	75.8	0.495
40	76.9	0.510
50	72.3	0.476
60	72.2	0.479
70	74.2	0.489
80	74.8	0.492
90	75.0	0.493
100	74.4	0.495

[illegible][illegible]

Event	Force (lb)	μ	Temp (°F)
1	54.2	0.354	495.0
2	58.1	0.381	398.0
3	59.8	0.395	301.0
4	55.0	0.361	203.0

Event	Force (lb)	μ	Temp (°F)
1	59.7	0.398	593.0
2	63.6	0.422	498.0
3	63.4	0.422	400.0
4	59.9	0.402	301.0
5	57.7	0.387	204.0