



Wuhan Mairuiduo Trading Co., Ltd.

TEST REPORT

Report No.: 2023T-04-V101QP-01

Product Name: Brake Block Assembly

Product Model: V101QP

Manufacture: Wuhan Jincheng Machinery
Equipment Co.,Ltd

Date: April 5th, 2023



Wuhan Mairuiduo Trading Co., Ltd.

I. Product Name: V101QP (with muffler assembly)

II. Manufacturer: Chongqing Langrui Friction Material Co.

III. Test standard: GB5763-2008, JASO C437, JIS D4415, ISO-6310-1881-07-01

IV. Test equipment: fixed-speed friction tester, plastic Rockwell hardness machine, shear strength tester, analytical balance, PH meter.

V: Analytical balance, PH meter, compression characteristics tester

VI: Test date: April 5, 2023

VII: Test data:

No.	Test project	Standard requirement		Test result		Conclusion
1	Friction coefficient (μ)	Friction surface temperature 100℃	0.42±0.05	warming	0.42	Qualified
				cooling down	0.43	
		Friction surface temperature 150℃	0.42±0.05	warming	0.44	Qualified
				cooling down	0.45	
		Friction surface temperature 200℃	0.42±0.05	warming	0.46	Qualified
				cooling	0.43	
		Friction surface temperature 250℃	0.42±0.05	warming	0.45	Qualified
				cooling	0.44	
		Friction surface temperature 300℃	0.42±0.05	warming	0.42	Qualified
				cooling	0.44	
		Friction surface temperature 350℃	0.42±0.05	warming	0.42	Qualified
				cooling	---	
2	Allowable deviation of specified coefficient of friction ($\Delta\mu$)			warming	cooling	
		Friction surface temperature 100℃	0.42±0.08	0	+0.01	
		Friction surface temperature 150℃	0.42±0.10	+0.02	+0.03	
		Friction surface temperature 200℃	0.42±0.10	+0.04	+0.01	
		Friction surface temperature 250℃	0.42±0.10	+0.03	+0.02	
		Friction surface temperature 300℃	0.42±0.12	0	+0.02	
		Friction surface temperature 350℃	0.42±0.12	0	---	
3	Attrition rate (V) 10 ⁻⁷ cm ³ /N·m	Friction surface temperature 100℃	≤0.50	0.14		Qualified
		Friction surface temperature 150℃	≤0.70	0.23		Qualified
		Friction surface temperature 200℃	≤1.00	0.26		Qualified
		Friction surface temperature 250℃	≤1.5	0.32		Qualified
		Friction surface temperature 300℃	≤2.00	0.45		Qualified
		Friction surface temperature 350℃	≤2.50	0.54		Qualified
4	Bonding shear strength	Ordinary temperatures≥4.0MPa、80%	4.2、4.5、4.5	90%、95%、90%		Qualified
		High temperatures≥3.0MPa、80%	3.5、3.8、4.0	95%、90%、98%		Qualified
5	compression volume (mm)	≤0.33		0.23、0.26、0.25		Qualified
6	Hardness (HRS)	88±16		84、86、87、89		Qualified
7	PH			9.5		
8	Densities (g/cm ³)			2.02、2.06、2.04		



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