

# ISO 26867:2009-07 (E)

## Road vehicles - Brake lining friction materials - Friction behaviour assessment for automotive brake systems

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols and abbreviated terms .....	4
4.1	Symbols .....	4
4.2	Abbreviated terms .....	6
5	Test conditions and preparation .....	6
5.1	Inertia for the front axle .....	6
5.2	Inertia for the rear axle .....	6
5.3	Test wheel load .....	6
5.4	Pressure ramp rate .....	6
5.5	Maximum pressure .....	6
5.6	Pressure level with no power assist .....	7
5.7	Sampling rate .....	7
5.8	Initial brake temperature .....	7
5.9	Brake warm-up .....	7
5.10	Temperature measurement .....	7
5.11	Brake fluid displacement measurement .....	7
5.12	Cooling air conditions .....	7
5.13	Cooling air velocity or volume .....	7
5.14	Conditioning settings for temperature and absolute humidity (humidity ratio) .....	7
5.15	Dynamometer rotational speed between brake applications .....	8
5.16	Orientation of brake set-up .....	8
5.17	Direction of air concerning brake set-up .....	8
5.18	Brake cooling rate .....	8
5.19	Wear measurement .....	8
5.20	Lateral run-out .....	8
5.21	Rotor or drum condition .....	8
5.22	Fade sections .....	8
5.23	Data collection .....	9
6	Test procedures .....	10
6.1	Test procedure for product monitoring with no optional brake applications .....	10
6.2	Test procedure for product development with additional brake applications .....	12
6.3	Standard friction values calculated during test procedure .....	14
7	Test report .....	15
7.1	General .....	15
7.2	Graphical report .....	15
7.3	Tabular data for each brake application .....	15
7.4	Wear measurements .....	15
7.5	Test conditions .....	15
7.6	Cooling air conditions .....	15

7.7	Brake cooling rate .....	16
7.8	Friction values .....	16
7.9	Statistical analysis .....	16
Annex A (informative) Sample report for disc brakes .....		17
Annex B (informative) Histograms for instantaneous friction values .....		20
Annex C (informative) Reference calculations for cooling air speed and flow .....		22
Bibliography .....		24