

ISO 26867:2009-07 (E)

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

Contents	Page
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