

# ISO 18535:2016-03 (E)

## Diamond-like carbon films - Determination of friction and wear characteristics of diamond-like carbon films by ball-on-disc method

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Test materials and specimen preparation .....	2
4.1	Materials .....	2
4.2	Ball specimen .....	2
4.3	Disc specimen .....	2
5	Apparatus .....	3
6	Testing procedure .....	4
6.1	Treatment of specimen before test .....	4
6.2	Preparation of wear test .....	4
6.3	Testing conditions for friction test .....	4
6.4	Testing conditions for friction and wear test .....	4
6.5	Measurement of friction force .....	4
6.6	Measurement of wear scar on ball specimen .....	5
6.7	Measurement of wear scar on disc specimen .....	5
6.8	Number of test repeats .....	5
7	Calculation of test results .....	6
7.1	Specific wear rate of diamond-like carbon films on ball specimen .....	6
7.2	Specific wear rate of diamond-like carbon films on disc specimen .....	6
7.3	Coefficient of friction .....	7
7.4	Rounding off of numerical values .....	7
8	Test report .....	7
Annex A (informative)	Uncertainty of measurement for calculating of coefficient of friction .....	9
Bibliography .....		12