

# ISO/TS 10719:2016-12 (E)

## Cast irons - Determination of non-combined carbon content - Infrared absorption method after combustion in an induction furnace

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	1
5	Reagents .....	2
6	Apparatus .....	2
7	Sampling .....	3
8	Procedure .....	3
8.1	General operating instructions .....	3
8.2	Test portion .....	4
8.3	Blank test .....	4
8.4	Determination .....	4
8.4.1	Dissolution of the test portion .....	4
8.4.2	Filtration of the non-combined carbon .....	4
8.4.3	Measurements .....	4
8.5	Establishing the calibration curve .....	5
8.5.1	Primary product calibration .....	5
8.5.2	Calibration by means of certified reference materials .....	5
9	Expression of results .....	6
9.1	Primary product calibration .....	6
9.2	Calibration by means of certified reference materials .....	6
10	Precision .....	6
11	Notes on the procedure .....	7
11.1	Preliminary blank tests .....	7
11.2	Preliminary tests on certified reference materials .....	7
12	Test report .....	7
Annex A (informative) Additional information on the international interlaboratory test .....		8
Annex B (informative) Comparison between the results of the first and the second precision tests .....		10
Annex C (informative) Effect of fine material in a sample on the determination of non-combined carbon content .....		11
Bibliography .....		14