

# ISO 7097-1:2004-07 (E)

## Nuclear fuel technology - Determination of uranium in solutions, uranium hexafluoride and solids - Part 1: Iron(II) reduction/potassium dichromate oxidation titrimetric method

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Principle .....	1
4	Reactions and interferences .....	2
4.1	Reactions .....	2
4.2	Interferences .....	2
5	Reagents .....	3
6	Apparatus .....	5
7	Sample preparation .....	6
7.1	General .....	6
7.2	Uranium metal .....	6
7.3	Uranium dioxide pellets .....	7
7.4	Uranium oxide powder (UO <sub>2</sub> , UO <sub>3</sub> , U <sub>3</sub> O <sub>8</sub> ) .....	7
7.5	Uranium hexafluoride .....	7
7.6	Uranyl nitrate hexahydrate .....	7
8	Procedure .....	7
9	Expression of the results .....	8
9.1	General .....	8
9.2	Method of calculation .....	8
9.3	Repeatability .....	10
9.4	Bias .....	10
10	Test report .....	10
Annex A (informative) Information about sampling and calculations of results .....		11
Bibliography .....		14