

DIN ISO 7544:2025-10 (E)

Rolling bearings - Test and assessment methods for cleanliness (ISO 7544:2024)

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	2
5	Main steps of cleanliness inspection	2
6	Equipment and accessories	3
6.1	Equipment for extraction	3
6.1.1	Equipment for pressure-rinsing method	3
6.1.2	Equipment for ultrasonic method	4
6.2	Equipment for filtration	5
6.3	Auxiliary accessories	7
6.4	Equipment for analysis	8
6.4.1	Gravimetry	8
6.4.2	Light-optical analysis	8
7	Blank value	8
8	Test lot	8
8.1	General	8
8.2	Test lot size	8
9	Extraction	9
9.1	General	9
9.2	Test fluid	9
9.3	Pressure-rinsing method	9
9.3.1	General	9
9.3.2	Parameters for pressure-rinsing extraction	9
9.3.3	Procedure for pressure-rinsing extraction	10
9.4	Ultrasonic method	10
9.4.1	General	10
9.4.2	Parameters for ultrasonic extraction	10
9.4.3	Procedure for ultrasonic extraction	11
10	Filtration and drying	11
10.1	General	11
10.2	Analysis filter	11
10.3	Procedure for filtration	11
10.4	Procedure for drying	12
11	Analysis	12
11.1	Gravimetry	12
11.2	Light-optical analysis	12
12	Test report	13
13	Escalation	13
Annex A (informative)	Explanations on “cleanliness” of rolling bearings	14
Annex B (informative)	Pressure-rinsing parameters	19
Annex C (informative)	Occupational health, safety and environment	21
Annex D (informative)	Example of a test report	22
Annex E (informative)	Escalation strategy	23
Bibliography		24