

ISO 14085-3:2024-05 (E)

Aerospace series - Test methods for hydraulic filter elements - Part 3: Filtration efficiency and retention capacity

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	4
5	Test procedure overview	5
6	Test apparatus	5
7	Instrument accuracy and allowable test condition variation	9
8	Test equipment validation	10
8.1	Steady flow filter test system validation	10
8.2	Cyclic flow filter test system validation	11
8.3	Contaminant injection system validation	12
9	Summary of information required prior to testing	13
10	Preliminary test preparation	13
10.1	Test filter assembly	13
10.2	Contaminant injection system	14
10.3	Steady flow filter test system	15
10.4	Cyclic flow filter test system	16
11	Filter element efficiency test	16
11.1	Steady flow test	16
11.2	Cyclic flow test	18
12	Calculation and data reporting	20
12.1	Filtration ratio and retention capacity	20
12.2	Calculation of stabilized particle counts for cyclic flow test	24
13	Identification statement (reference to this document)	28
Annex A (normative)	Properties of test fluid to evaluate performance of hydraulic fluid systems filter elements	29
Annex B (informative)	Test system design guidance	31
Bibliography		36