

DIN EN 12941:2025-04 (E)

Respiratory protective devices - Powered filtering devices incorporating a loose fitting respiratory interface - Requirements, testing, marking

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions, description and symbols	5
3.1	Terms and definitions	5
3.2	Description	6
3.3	Symbols	7
4	Classification	7
5	Requirements	8
5.1	General	8
5.2	Values and tolerances	10
5.3	Ergonomics	10
5.4	Design	10
5.5	Materials	10
5.6	Mechanical strength (optional)	10
5.7	Resistance to temperature	10
5.8	Respiratory Interface (RI)	11
5.9	Inward leakage	11
5.10	Breathing resistance	12
5.11	Air supply	12
5.12	Warning facilities	12
5.13	Electrical components	13
5.14	Breathing hose, if applicable, and couplings	13
5.15	Filters	14
5.16	Noise level	19
5.17	Carbon dioxide content of the inhalation air	20
5.18	Flammability	20
5.19	Exhalation means, if applicable	20
5.20	Mass of RPD	21
5.21	Practical performance	21
6	Testing	22
6.1	Test schedule	22
6.2	Conditioning	24
6.3	Inspection	24
6.4	Inward leakage	25
6.5	Visor robustness	26
6.6	Breathing resistance	26
6.7	Air supply flow rate	26
6.8	Resistance to collapse of breathing hose	29
6.9	Strength of hose and couplings	30
6.10	Mechanical strength	30
6.11	Filter performance testing	31
6.12	Mass carried by the head	34
7	Marking	35

7.1	General	35
7.2	RI	35
7.3	Blower-unit and battery casing (if separate from the blower-unit)	35
7.4	Filters	35
7.5	Filter package	37
7.6	RPD packages	37
8	Information supplied by the manufacturer	37
8.1	Complete RPD	37
8.2	Filters	38
Annex ZA (informative) Relationship between this European Standard and the essential health and safety requirements of Regulation 2016/425/EU [2016 OJ L81] aimed to be covered		39
Bibliography		41