

FILTER ELEMENT – OALU new

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OALU filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air ⁽¹⁾. OALU filter elements have been designed to fit into ALUP filter housings.



APPLICATIONS ⁽²⁾

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

⁽¹⁾ For any other technical gas please contact us or your local dealer.

⁽²⁾ OALU filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
P/R	Class 3	-	Class 3
G/M	Class 2	-	Class 2
C/S	Class 1	-	Class 1
V/A	-	-	Class 0/1

Validated according to ISO12500-1, ISO12500-2 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	P/R ⁽⁶⁾	G/M ⁽⁶⁾	C/S ⁽⁶⁾	V/A ⁽⁶⁾
Operating temperature		1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
Operating pressure			0-16 barg / 0 -232 psi	
Differential pressure (dry)	20 mbar 0,290 psi	50 mbar / 0,725 psi	80 mbar 1,160 psi	60 mbar 0,870 psi
Differential pressure (wet)	40 mbar 0,580 psi	120 mbar / 1,740 psi	190 mbar 2,756 psi	N/A
Particle retention (nominal)	99,9999 % (1 µm)	99,9999 % (0,1 µm)	99,9999 % (0,01 µm)	N/A
Particle retention rate ISO ⁽³⁾	99,8 %	99,98 %	99,998 %	N/A
Residual oil content ⁽⁴⁾	< 0,5mg/m ³	< 0,1mg/m ³	< 0,01mg/m ³	< 0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾	N/A	N/A	N/A	20 min

⁽³⁾ Tested according to ISO12500-3, 1bar(a), nominal flow 06050 P/R, G/M, C/S, MPPS-(0,3µm)

⁽⁴⁾ Tested according to ISO12500-1, 06050 P/R, G/M, C/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³

⁽⁵⁾ Tested according to ISO12500-2, 06050 V/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

⁽⁶⁾ Cross reference Omega Air – Alup filtration grades: R=P/R = P, M=G/M=G, S= C/S = C, A=V/A = D

FILTER CARTRIDGE NAMES

Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size instead of dashes.

E.g. OALU 45 P/R

SIZES

MODEL	DIMENSIONS [mm]
OALU 45 _/_	Ø=46; h=56
OALU 90 _/_	Ø=46; h=91
OALU 125 _/_	Ø=46; h=146
OALU 180 _/_	Ø=61; h=155
OALU 290 _/_	Ø=61; h=195
OALU 505 _/_	Ø=86; h=288
OALU 685 _/_	Ø=86; h=323
OALU 935 _/_	Ø=86; h=368
OALU 1295 _/_	Ø=102; h=420
OALU 1890 _/_	Ø=120; h=509
OALU 2430 _/_	Ø=120; h=679

Ø=Diameter; h=Height

MATERIALS

	P/R	G/M	C/S	V/A
Filter media	Borosilicate micro fibres		Glass fibre, borosilicate microfibres	
Adsorption media	/		Activated carbon granulate PES (Polyester)	
Drainage media	Polyester based polyurethane			/
Support (inner-outer)	Stainless steel 1.4301			
Bonding	Polyurethane			
Endcaps	PA6 with 30% glass fibres			
Sealing	NBR			

CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE


[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

Replace filter element grade P/R, G/M and C/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade V/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285
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