



**CERTIFICATE OF COMPLIANCE**  
**ADXORB® Activated Carbon for Purecab Filters**

All test data and filter analysis strictly remain the property of AES Cultivate Pty Ltd and may not be published without written consent.

**Statement of Compliance**

AES Cultivate Pty Ltd certifies that Purecab filters, powered by ADXORB® Activated Carbon, have been independently tested and verified to meet and exceed the following international standards for agricultural cabin air filtration:

- **EN 15695-2:2017** – Agricultural Tractors and Self-Propelled Sprayers – Protection of the Operator
- **ASABE S613.3 (2018)** – Tractors and self-propelled machinery for agriculture — Air quality systems for cabs — Part 3: Filters for environmental cab HVAC systems

Most recent testing conducted and reported by accredited third-party laboratories, including **Assay Technology Inc. USA (prev Miller Nelson) 2022** and **S-Test Europe, 2025**.

Results have been further analysed and validated at **University of Adelaide, Australia (Dr Cameron Shearer, Department of Chemistry - School of Physics, Chemistry & Earth Sciences)**.

Testing equipment designed and certified for measuring the vapour removal efficiency and service life of air purifying device according to the relevant test procedure.

These independent tests confirm that ADXORB® Activated Carbon provides superior protection for operators by effectively adsorbing harmful vapours and capturing fine particulates under laboratory-controlled conditions.

**Summary of Independent Test Results**

Test Standard	Testing Body	Result
EN 15695-2:2017	S-Test, Turkey	<b>98.05% Dust Efficiency; Vapour Concentration 4 ml/m<sup>3</sup> (Pass)</b>
ASABE S613.3 (2018)	Assay Technology, USA	<b>Breakthrough Time &gt; 30 minutes – Superior Performance (Pass)</b>

The results demonstrated that ADXORB® Activated Carbon significantly exceeds the minimum requirements of both standards.

**Performance Comparison Overview**

Independent testing has shown that Purecab filters with ADXORB® Activated Carbon outperform competitor filters in key performance areas:

- **Higher Adsorption Capacity** – Consistently superior retention of organic test vapours such as Ethyl Acetate and Cyclohexane.
- **Extended Service Life** – Longer operational life before reaching breakthrough thresholds, ensuring sustained protection for machinery operators.
- **Dust Retention** – Exceptional efficiency in capturing fine particulate matter under ISO A2 Fine Dust test conditions.

AES Cultivate Pty Ltd, ADXORB® Activated Carbon.

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Performance Metric	Pass criteria	ADXORB® Activated Carbon (Purecab)	European activated carbon filter	Canadian activated carbon filter	Leading OEM brand activated carbon filter	USA brand activated carbon filter
Dust Filtration Efficiency	1g/m <sup>3</sup> 30mins	98.05%	-	-	-	-
Vapour Penetration (Cyclohexane)	10 ml/m <sup>3</sup> limit	4 ml/m <sup>3</sup> PASS	-	-	-	-
Breakthrough Time (Ethyl Acetate)	>30 mins	41-44 mins	4 mins	13 mins	22 mins	6 mins
Service Life Before Saturation	2070 hrs equivalent	3,038 hours: PASS	276 hours: Fail	897 hours: Fail	1518 hrs: Fail	414 hours: Fail

Manufacturer details not disclosed. Detailed comparative data is available upon request for regulatory or technical review.

#### Technical Notes

- **Test Media:** Ethyl Acetate (USA) and Cyclohexane (Europe) vapour test challenge.
- **Ambient Conditions:** Temperature ~23°C; Humidity ~80%.
- **Test Methods:** Conducted to internationally recognised standards by accredited laboratories.
- **Result Summary:** All test results confirm compliance with EN 15695-2:2017 and ASABE S613.3 (2018), validating the effectiveness of ADXORB® Activated Carbon across a wide range of machinery applications.

**ADXORB® Activated Carbon** is a proprietary and registered trademarked granulated activated carbon agent used exclusively by AES Cultivate Pty Ltd.

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