

Test Report No 25LA00406

Vasto, 06/02/2025

Client: S.I.C.A.V. S.P.A
ZONA INDUSTRIALE - 66052 GISSI (CH)

Sample ID: 25LA00101 Acceptance date: 15/01/2025 Analysis start date: 15/01/2025 Analysis end date: 27/01/2025

Sample Description: ¹Granular activated carbon

Sample label: ST1

Place /sampling point: ¹c/o S.I.C.A.V. S.P.A - ZONA INDUSTRIALE - 66052 GISSI (CH)

Sample quantity: 500 g Arrival T: r.t. Temp conformity: yes Sample return: no

Sampling of: ¹Customer

Sampling procedure: by the customer

Sampling report: Sampling date: ¹15/01/2025

NOTE:
- This test report can be freely reproduced by the applicant only in its entirety; partial reproduction must be explicitly authorized by the Laboratory.
- The analytical results reported in this test report refer only to the sample tested.
- For customer-supplied samples, the results refer to the sample as received

LEGEND:
U: expanded uncertainty expressed as a natural value in the same unit of measurement as the result. The expanded uncertainty values contained in this test report are related to a probability level $p = 95\%$ and a coverage factor $k = 2$. For microbiology tests, the combined standard uncertainty is considered equal to the standard deviation of reproducibility intralaboratory; R% (recovery value in%): where necessary, the recovery during the validation phase was evaluated for the tests; if reported, it indicates that the result was corrected for the recovery factor; u.c.: sample unit (aliquot); rt.: room temperature; #: single plate test according to ISO 7218: 2007-amd 1: 2013 pt. 10.2.2; s.c.: surface sampled; (s): subcontracted test; ¹: information provided by the customer, for which the laboratory declines all responsibility; for the calculation of the summations the laboratory has decided to adopt the lower bound criterion; LOD: Limit of detection, defined as the lowest concentration of the analyte in a sample that can be detected, but not necessarily quantified, with the adopted method and under established test conditions; LOQ: Limit of quantification, defined as the lowest concentration of the analyte in a sample that can be determined, with acceptable precision and accuracy, using the indicated method and under established test conditions; ND: Not detectable as it is lower than the LOD of the test method;
Unless otherwise specified, in the expression of the conformity / non-conformity judgment, the expanded measurement uncertainty is not taken into account;
FL: Notation indicating a value beyond the regulatory limit;
Ministerial Decree: Ministerial Decree; Legislative Decree: Legislative Decree; Presidential Decree: Decree of the President of the Republic; CNR-IRSA: National Research Council - Research Institute
on the Waters; EPA: Environmental Protection Agency - US Government Environmental Agency; UNI: Italian National Unification Body; ISO: International Organization for Standardization.

(*) : test not accredited by ACCREDIA

Summation note:
Sommatoria Idrocarburi Policiclici (estraibili): l'approccio utilizzato per la valutazione dei risultati inferiori al LOQ è "Medium bound".

Test and reference method	Unit of measure	Result	R %	Legal limit
Physical parameters				
Wettability * UNI EN 12915-1:2009	% S.S.	> 99		99 (1)
Water content (105°C) UNI EN 12902:2005	%	2,04		5 (1)
Water soluble materials UNI EN 12902:2005	% S.S.	< 0,50		3 (1)
Ashes at 650 ° C ASTM D2866-11 (2018)	% S.S.	8,21		15 (1)
PURITY CRITERIA				
Iodine number UNI EN 12902:2005	mg/g	817		600 (1)
WATER EXTRACTABLE TOXIC SUBSTANCES - HEAVY METALS				
Antimony (extractable) UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023	µg/l	0,400		3 (1)
Arsenic (extractable) UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023	µg/l	1,63		10 (1)

Mod RDP2.1 Rev. n° 05 del 11/11/2021

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Test and reference method	Unit of measure	Result	R %	Legal limit
Cadmium (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	< 0,010		0,5 (1)
Chromium (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	1,43		5 (1)
Mercury (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	0,090		0,3 (1)
Nickel (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	5,5		15 (1)
Lead (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	< 0,10		5 (1)
Selenium (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + UNI EN ISO 17294-2:2023</i>	µg/l	< 0,43		3 (1)
Cyanides <i>*UNI EN 12902:2005 + APAT CNR IRSA 4070 Man 29 2003</i>	µg/l	< 5,0		5 (1)
WATER EXTRACTABLE TOXIC SUBSTANCES - POLYCYCLIC AROMATIC HYDROCARBONS				
Sum of polycyclic hydrocarbons (extractable) <i>UNI EN 12902:2005 par. 6.3.4 + EPA 8270E 2018</i>	µg/L	0,0060		0,02 (1)

Limits:

(1): UNI EN 12915-1:2009 - Prodotti utilizzati per il trattamento delle acque destinate al consumo umano - carbone attivo granulare vergine

Rate: **25LA00406/01**

Test and reference method	Unit of measure	Result	R %	Legal limit
Contaminants - Metals				
Zinc <i>*UNI EN 12902:2005 pt. 6.9</i>	% s.s.	< 0,0002		0,002 (1)

Limits:

(1): UNI EN 12915-1:2009 - Prodotti utilizzati per il trattamento delle acque destinate al consumo umano - carbone attivo granulare vergine

Note: This test report is the translation of the one reported in the Sample ID report field.

DECLARATION OF CONFORMITY

Declaration of conformity/non-conformity (taking into account the expanded measurement uncertainty):

The granular activated carbon, subject of this analysis, complies with the specifications established by the UNI EN 12915 standard for materials used for the treatment of water intended for human consumption.

Chemical Laboratory Manager

Dott. Antonio D'Aloise

Ordine dei Chimici Lazio - Umbria - Abruzzo -
Molise
Iscrizione n. 3888 sez. A

Laboratory Director

Dott. Tommaso Ciccotosto

Ordine Nazionale dei Biologi
Iscrizione n. 054665 sez. A

This Test Report has been digitally signed by the Laboratory Technical Manager and is valid for all legal purposes in accordance with Legislative Decree 07/03/2005 n. 82 et seq.

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- Fine Rapporto di Prova -