

TEST REPORT No. TESR 25/2024/1810

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Customer Name	Donald Excell	Reference:	CMQ-C/MISC 15773
Address:	Donolva District; Maryland P.O; Hanover; Jamaica	Date Received:	2024 February 21
Manufacturer:	N/A	Date and Location of Test:	2024 February 23 – 2024 March 1 BSJ - 6 Winchester Road, Kingston 10
Product:	Charcoal – two (2) sample	Serial No. / ID No.:	N/A
Test Method:	ASTM METHOD D4607: Standard Test Method for Determination of Iodine Number of Activated Carbon	Specification(s):	N/A
Ambient Conditions:	Temperature 24.6°C – 25.5 °C Relative Humidity 55.5% – 61.2%	Test Uncertainty:	N/A
Standard(s) Used:	N/A	Traceability:	N/A

Test Methods and Additions, Deviations, or Exclusions from Method:

	Volume of 5% HCl used was 20ml
Additions, deviations, or exclusions from method	Volume of Iodine used was 50 ml.
	Volume of filtrate used was 20ml.

PLEASE SEE PAGE TWO (2) FOR RESULTS



Circulation:	Remarks:	Prepared by	:	Issued/Appr	oved by:
Donald Excell Chemistry Branch		Signature:	Mickel Rhoden / Toni	Signature:	D. Bremmer
		Name:	Thomas	Name:	Dwyte Bremmer
		Post:	Analyst/ Senior Analyst	Post:	Director
File		Date:	2024 March 7	Date:	25-MAR-2024

Form #: S&T_F_01/00 Issue Date: 2014 Jul 21 Revision # 3 Revision Date: 2019 Feb 01 Sheet 1 of 2 Sheet(s)

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Sample Identification	Iodine Number (mg/g)	
Charcoal	666.83	
Sample A		

Sample Identification	Iodine Number (mg/g)	
Charcoal	670.99	
Sample B		

Based on literatures the iodine number for activated carbon is between (500 – 1200) mg/g.^{1,2}

References

- (1) Mopoung, S.; Moonsri, P.; Palas, W.; Khumpai, S. Characterization and Properties of Activated Carbon Prepared from Tamarind Seeds by KOH Activation for Fe(III) Adsorption from Aqueous Solution. *The Scientific World Journal* **2015**, *2015*, 1–9. https://doi.org/10.1155/2015/415961.
- (2) Saka, C. BET, TG-DTG, FT-IR, SEM, Iodine Number Analysis and Preparation of Activated Carbon from Acorn Shell by Chemical Activation with ZnCl2. *Journal of Analytical and Applied Pyrolysis* **2012**, *95*, 21–24. https://doi.org/10.1016/j.jaap.2011.12.020.

The values reported are representative of the samples that were tested.

END OF REPORT

