



# Diamonds, Earth's Mantle and 11 IKC in Gaborone

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## Introduction

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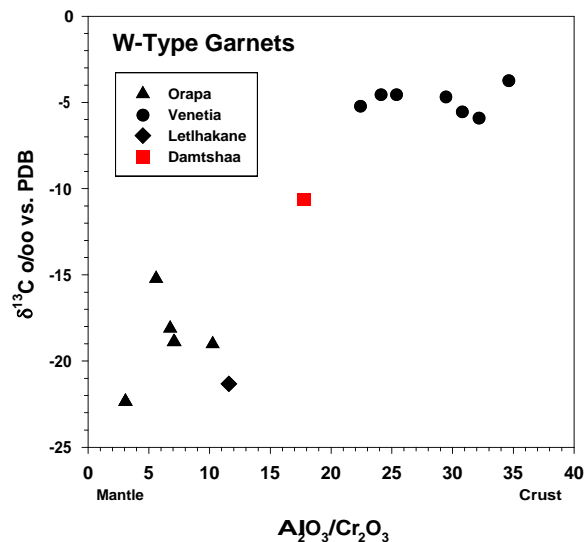
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## Analytical Results

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**Figure 1:** Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub> ratio of websteritic garnets and the carbon isotopic composition the host diamond.

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Sample	MW64	MW65	MW67	MW70	MW82	MW83	MW84
Mineral	garnet	garnet	garnet	garnet	garnet	garnet	garnet
Paragenesis	h	h	h	h	l	l	h
Garnet Class	G10D	G10D	G10D	G10D	G9	G9	G10D
P2O5	0.00	0.01	0.01	0.02	0.02	0.05	0.04
SiO2	41.46	40.52	41.06	41.38	41.63	40.74	41.38
TiO2	0.01	0.02	0.05	0.17	0.07	0.32	0.00
Al2O3	18.51	12.81	15.98	17.30	19.24	16.54	18.19
Cr2O3	7.53	14.77	11.12	8.74	6.12	9.34	7.48
FeO	5.81	6.61	5.81	6.71	5.83	6.77	6.38
MnO	0.28	0.38	0.29	0.38	0.24	0.35	0.33
NiO	0.01	0.01	0.00	0.01	0.01	0.02	0.01
MgO	23.20	21.85	23.32	21.67	21.00	20.03	21.23
CaO	2.45	2.73	1.86	3.86	5.78	5.99	4.92
Na2O	0.01	0.04	0.00	0.00	0.02	0.04	0.02
K2O	0.00	0.01	0.00	0.01	0.00	0.01	0.00
<b>Total</b>	99.27	99.75	99.51	100.25	99.94	100.19	99.99

**Table 1:** Major element analyses (wt.%) of garnet inclusions in Mwadui diamonds.

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## References

Deines P, Gurney JJ, Harris JW (1984) Associated chemical and carbon isotopic composition variations in diamonds from Finsch and Premier Kimberlite, South-Africa. *Geochim Cosmochim Acta* 48(2):325-342

Meyer HOA (1987) Inclusions in diamond. In: Nixon PH (ed) *Mantle xenoliths*, John Wiley & Sons Ltd., Chichester, pp 501-522

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