

Table DR3 – Clumped- and bulk-isotope measurements of calcite and dolomite marbles from Naxos.

Sample	Type/description ^a	Latitude	Longitude	calcite/ dolomite (%)	n	Δ_{47} (‰) ARF ^b	1 S.E. (‰) ^c	1 S.D. (‰)	$\delta^{13}\text{C}$ (PDB)	1 S.D. (‰)	$\delta^{18}\text{O}$ (SMOW)	1 S.D. (‰)	Apparent T (°C) ^d ± 1S.E.
Whole-rock results													
NAX13	cal	37.0484	25.5286	100/0	3	0.427	0.007	0.012	1.802	0.005	-3.230	0.021	171±8
NAX16	cal	37.0253	25.4824	100/0	4	0.391	0.004	0.009	0.710	0.005	-4.300	0.015	220±6
NAX19	cal	37.0118	25.5031	98/2	9	0.450	0.010	0.028	1.065	0.035	-3.036	0.015	153±9
NAX2	cal	37.0722	25.4877	99/1	3	0.397	0.020	0.035	0.569	0.015	-3.984	0.051	211±28
NAX25	cal	37.0018	25.5190	98/2	5	0.417	0.004	0.009	1.330	0.012	-3.579	0.021	183±5
NAX33	cal	36.9339	25.4750	98/2	4	0.423	0.006	0.012	1.915	0.020	-3.725	0.018	176±7
NAX36	cal	37.0960	25.4685	99/1	4	0.399	0.006	0.011	2.584	0.016	-6.691	0.020	208±9
NAX41	cal	37.0734	25.4505	99/1	5	0.430	0.007	0.015	2.901	0.007	-6.931	0.018	168±7
NAX5	cal	37.0561	25.4939	100/0	5	0.416	0.008	0.018	2.120	0.013	-4.129	0.035	185±10
NAX7	cal	37.0452	25.5015	100/0	7	0.431	0.007	0.019	2.383	0.022	-8.707	0.893	167±7
NAX10	cal*	37.0841	25.5219	92/8	3	0.505	0.009	0.016	-1.015	0.029	-4.151	0.098	106±6
NAX22	cal*	37.0172	25.5080	95/5	2	0.384	0.015	0.021	2.154	0.018	-6.292	0.003	232±24
NAX31	cal*	36.9673	25.4782	97/3	3	0.455	0.009	0.015	-0.316	0.023	-3.126	0.060	143±8
NAX39	cal*	36.9635	25.5516	95/5	2	0.434	0.008	0.011	2.068	0.038	-4.171	0.134	164±8
NAX12	dol	37.0484	25.5286	1/99	4	0.342	0.004	0.007	1.614	0.034	-5.686	0.058	334±13
NAX21	dol	37.0172	25.5080	0/100	5	0.352	0.012	0.027	-0.220	0.027	-7.251	0.048	304±31
NAX27	dol	36.9841	25.5028	2/98	5	0.341	0.012	0.026	1.377	0.023	-13.827	0.045	337±37
NAX4	dol	37.0561	25.4939	1/99	5	0.379	0.011	0.024	2.351	0.035	-4.339	0.081	242±20
NAX6	dol	37.0450	25.5024	1/99	7	0.350	0.008	0.020	2.386	0.052	-3.740	0.080	309±22
NAX9	dol	37.0841	25.5219	0/100	4	0.322	0.008	0.015	1.834	0.099	-3.301	0.329	416±37
NAX1	dol*	37.0722	25.4877	10/90	3	0.306	0.021	0.036	2.083	0.054	-0.321	0.182	516±124
NAX15	dol*	37.0253	25.4824	4/96	1	0.333	0.004		0.965	0.002	-6.725	0.004	367±15
NAX18	dol*	37.0115	25.5030	6/94	3	0.331	0.008	0.014	1.448	0.121	-0.867	0.122	375±30
NAX24	dol*	37.0018	25.5190	20/80	2	0.332	0.018	0.025	0.848	0.064	-2.793	0.239	371±61
NAX30	dol*	36.9673	25.4782	4/96	2	0.317	0.027	0.038	0.930	0.023	-7.898	0.071	443±115
NAX35	dol*	37.0960	25.4685	6/94	1	0.324	0.006		1.665	0.002	-13.737	0.007	406±27
NAX38	dol*	36.9635	25.5516	9/91	3	0.342	0.009	0.016	1.615	0.047	-3.253	0.255	334±28
Fabric-specific results													
NAX2A1	White band				1	0.404	0.004		0.383	0.004	26.8	0.008	201±6

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NAX2A2	White band				1	0.367	0.004		0.439	0.004	26.7	0.009	266±9
NAX2A3	Grey band				1	0.410	0.004		0.197	0.003	26.7	0.003	192±5
NAX2A4	Grey band				1	0.409	0.004		0.523	0.004	26.7	0.005	194±5
NAX2A5	White band				1	0.364	0.004		0.479	0.003	27.3	0.005	273±9
NAX2A6	White band				1	0.365	0.004		0.784	0.002	26.8	0.003	271±9
NAX2B1	White band				1	0.407	0.004		0.324	0.003	26.8	0.006	196±5
NAX2B2	White band				1	0.372	0.004		0.431	0.002	26.8	0.005	255±8
NAX2B3	Grey band				1	0.364	0.005		0.180	0.004	26.7	0.006	273±11
NAX2B4	Grey band				1	0.407	0.004		0.412	0.002	26.8	0.006	196±5
NAX2B5	White band				1	0.374	0.004		0.636	0.003	26.7	0.006	251±8
NAX2B6	White band				1	0.373	0.004		0.737	0.004	26.7	0.006	253±8
NAX9 (a,b)	Primary				2	0.356	0.004	0.006	1.813	0.001	27.5	0.004	293±10
NAX9 (c,d)	Contact				2	0.322	0.008	0.012	1.818	0.002	27.6	0.003	416±37
NAX9 (e,f)	Secondary				2	0.330	0.005	0.007	0.696	0.002	22.7	0.003	379±20
NAX19-1	Medium grain size				2	0.542	0.001	0.001	-0.818	0.001	27.0	0.002	84±1
NAX19-2	Medium grain size				2	0.475	0.003	0.004	0.358	0.003	27.5	0.004	127±2
NAX19-3	Medium grain size				2	0.427	0.035	0.049	1.304	0.001	27.9	0.005	171±34
NAX19-4	Shear band				2	0.566	0.022	0.032	-1.678	0.002	26.3	0.004	73±9
NAX19-5	Coarsest grain size				2	0.401	0.011	0.015	1.789	0.002	28.2	0.004	205±15
NAX2 Grain size fraction results													
NAX2	147-250µm				3	0.406	0.004	0.007	0.585	0.003	26.9	0.006	198±5
NAX2	250-589µm				3	0.399	0.008	0.014	0.578	0.004	26.8	0.005	208±11
NAX2	589-2000µm				3	0.383	0.006	0.011	0.467	0.004	26.8	0.007	234±10
NAX2 Controlled heating experiment results													
Average Grey	0 hours (Grey)				4	0.398	0.011	0.022	0.328	0.084	-4.056	0.025	209±16
NAX2_G2b	0.5 hours (Grey)				6	0.379	0.009	0.021	0.518	0.030	-4.012	0.011	243±16
NAX2_G4b	1 hours (Grey)				6	0.360	0.006	0.015	0.559	0.025	-4.033	0.013	283±14
NAX2_G6b	1.5 hours (Grey)				6	0.359	0.007	0.016	0.432	0.031	-4.033	0.019	285±17
Average White	0 hours (White)				8	0.378	0.006	0.017	0.486	0.060	-3.963	0.069	234±10
NAX2_W2b	0.5 hours (White)				6	0.369	0.011	0.027	0.694	0.040	-3.961	0.011	262±22
NAX2_W4c	1 hours (White)				5	0.360	0.007	0.016	0.682	0.045	-3.913	0.016	283±16
NAX2_W6b	1.5 hours (White)				6	0.345	0.005	0.012	0.592	0.055	-3.993	0.095	324±15

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^a 'cal'=calcite, 'dol'=dolomite. '*' were treated as mixed calcite-dolomite samples.

^b We used Mathieu Daéron's xlc0r47(1.0) online code (<http://rambaldi.pythonanywhere.com>) to convert Δ_{47} values from Caltech to the absolute reference frame and to calculate errors (considering sample analytical uncertainty and uncertainties in the position of heated and water-equilibrated gas lines).

^c When n=1, 1S.E. refers to the sample-internal error, otherwise it is the sample-external standard error.

^d Apparent temperature were calculated using the calibration of Stolper and Eiler (2015).

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