	SiO ₂	TiO ₂	Al_2O_3	FeO	MnO	MgO	CaO	Cr ₂ O ₃	NiO
Crystal	ТАР	PET	TAP	LLIF	LPET	ТАР	PET	LLIF	LLIF
Calibration Standard	Anorthite	Rutile	Anorthite	Fayalite	Rhodonite	Forsterite	Anorthite	MgCr ₂ O ₄	Ni-doped diopside
Peak time (s)	20	20	20	20	30	20	20	20	20
Correction slope (a)	1.0045					1.0776			
Correction intercept (b)	-0.0491					0.1333			
Measured wt%	in antigorite st	andard B	M66586						
Average	44.45	0.02	0.22	0.35	0.01	41.79	0.02	0.02	N.A.
Std. dev.	0.42	0.02	0.03	0.04	0.01	0.24	0.02	0.02	

Electronic Supplementary Table 1 Electron microprobe set-up for analysis of serpentine

HV = 15kV

Beam current = 10 nA

Beam diameter = $10\mu m$

SiO2 and MgO corrected by regressing measurements made with Anorthite and Forsterite as reference standards to measurements made with a Bowenite reference standard. Corrected values take the form of $X_{corrected} = a^* X_{raw} + b$, with slope (a) and intercept (b) reported above.