

# S1 – dados gerais

Mineral	Petrography				Microthermometry (°C)						Volatile phase composition (mol%)			Bulk composition (mol%)					Density (g/cm <sup>3</sup> )	
	Flw	Shape	Size (µm)	Occurrence	ThCH <sub>4</sub>	TmCO <sub>2</sub>	TmI	TmCl	ThCO <sub>2</sub>	TH	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub>	H <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub>	NaCl		
S1 65.20	Sch	0.80	subhedral	13	group alignment			-2.3				0	54	46						
		0.85	irregular	16	isolated			-3.1	16.7			0	86	14	95.1	0	3.0	0.5	1.4	0.90
		0.75	negative shape	7	isolated			-1.7	16.2			0	82	18	93.1	0	4.8	1.0	1.1	0.81
S1 76.75 L1	Ap	0.90	negative shape	22	isolated			-1.8	3.8		228 (L)	15	20	65	96.6	0.9	0.2	0.6	1.7	0.93
		0.90	negative shape	45	isolated			-2.1	3.8		235 (L)	9	23	68	96.8	0.6	0.2	0.7	1.7	0.94
		0.85	negative shape	21	isolated			-2.5	3.8		270 (L)	36	12	52	96.0	1.7	0.1	0.5	1.7	0.88
		0.70	negative shape	15	group		-60.0	-2.8	8.0	14.8 (V)	312 (L)	93	3	4	90.1	4.6	0.1	0.1	5.1	0.72
		0.65					-61.7	-2.7	11.0	14.0 (C)	353 (L)	98	1	1	82.3	14.7	0.1	0.1	2.8	0.85
		0.65					-61.5	-2.8	9.0	14.2 (C)	342(L)	94	3	3	90.2	5.2	0.1	0.1	4.4	0.68
	Qz	0.60	negative shape	6	isolated			-2.8	1.9		335 (L)	50	25	25	95.3	2.2	0.5	0.4	1.6	0.63
		0.60	negative shape	10	isolated			-1.8	2.0		340 (L)	55	20	25	95.3	2.3	0.4	0.4	1.6	0.64
		0.60	negative shape	8	isolated			-2.5	2.0		360 (L)	66	17	17	95.3	2.5	0.3	0.3	1.6	0.63
		0.60	negative shape		isolated			-2.6	0.3		322 (L)	64	7	29	95.3	2.2	0.2	0.7	1.6	0.64
Tur	0.60	tubular		isolated							30	64	6							
		tubular		isolated							0	70	30							
S1 81.60	Qz	0.55	subhedral	7	isolated			-3.0			386 (L)	32	26	42	98.4	0	0	0	1.6	0.57
		0.65	irregular	12	group alignment			-2.1			360 (L)	0	55	45	98.9	0	0	0	1.1	0.67
		0.55	irregular	12	group alignment			-2.5			366 (L)	0	49	51	98.7	0	0	0	1.3	0.57
		0.70	negative shape	9	group alignment			-2.4			338 (L)	23	39	38	98.7	0	0	0	1.3	0.72
		0.85	rounded	7	group			-1.8				0	48	52	99.0	0	0	0	1	0.87
		0.55	irregular	12	group			-2.3				45	21	34	98.8	0	0	0	1.2	0.56
		0.65	subhedral	10	isolated			-2.0			353 (L)	30	35	35	98.9	0	0	0	1.1	0.66
		0.75	subrounded	7	isolated			-1.7				0	41	59	99.1	0	0	0	0.9	0.76
	Sch	0.85	irregular	22	plane			-2.2			d (225)	0	29	71						
		0.85	irregular	18	plane			-2.7	16.2		d (246)	24	24	52	93.4	2.1	1.1	2.3	1.1	0.94
		0.85	irregular	17	isolated			-2.4	8.2			16	22	62	95.6	1.1	0.5	1.3	1.5	0.90
		0.85	subhedral	11	isolated			-2.4	15.9		252 (L)	10	22	68	93.7	1	1	3.1	1.2	0.94
		0.85	subhedral	14	isolated			-2.5	5.9			26	20	54	95.9	1.5	0.3	0.7	1.6	0.90
		0.80	irregular	15	isolated			-2.5	2.3		d	11	20	69	96.0	0.8	0.4	1.2	1.6	0.85
		0.85	subhedral	10	isolated			-2.6				10	27	63						
		0.85	irregular	18	isolated			-1.8	7.9			0	34	66	96.0	0	0.8	1.6	1.6	0.90
	Tur	0.85	subhedral		isolated			-2.5				16	14	70						
		0.60	tubular	19	isolated			-1.8			266 (L)	20	20	60						
		0.60	tubular	7	isolated			-2.0	10.3		260 (L)	0	75	25	92.4	0	4.9	1.6	1.1	0.66
		0.55	tubular	13	isolated		-93.6 (V)	-2.0	12.4		298 (C)	28	62	10	90.7	3.1	4.6	0.7	0.8	0.62
	0.65	tubular		isolated			-2.0	11.6		275 (L)	0	78	22	92.8	0	4.7	1.3	1.2	0.71	

# S12 – dados gerais

Mineral		Petrography				Microthermometry (°C)						Volatile phase composition (mol%)			Bulk composition (mol%)					Density (g/cm³)	
		Flw	Shape	Size (µm)	Occurrence	ThCH <sub>4</sub>	TmCO <sub>2</sub>	TmI	TmCl	ThCO <sub>2</sub>	TH	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub>	H <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub>	NaCl		
S12 180.29 L1	Sch	0.70	rounded	10	isolated	-89.8 (L)		-2.5	17.6		d (257)	6	87	7	91.1	0.7	6.8	0.6	0.8	0.77	
		0.75	irregular	20	group	-90.9		-3.1				0	94	6	92.9	0	5.7	0.3	1.1	0.81	
		0.85	subhedric	19	group			-2.0	16.7		d (200-220)	0	89	11	95.1	0	3.1	0.4	1.4	0.90	
			subhedric	20	group			-2.6	17.5												
		0.85	subhedric	7	group			-2.0	16.0			0	92	8	95.3	0	3.0	0.3	1.4	0.90	
			negative shape	18	group			-3.2	5.2		267 (L)										
		0.85	negative shape	12	growth zone			-2.6	14.5		d (250-260)	0	90	10	95.7	0	2.6	0.3	1.5	0.90	
		0.90	negative shape	15	growth zone			-2.2	10.1		d (230-235)										
		0.90	negative shape	13	growth zone			-2.0	15.1		d (230-235)	0	81	19	96.3	0	1.7	0.4	1.5	0.94	
		0.90	negative shape	10	growth zone			-1.5	13.7		d (200-220)	0	86	14	96.6	0	1.6	0.3	1.6	0.94	
0.90	irregular	50	growth zone		-90.9	-2.3	15.5		d (160)	0	95	5	96.4	0	2.0	0.1	1.5	0.94			
0.85	negative shape	13	growth zone			-2.5	16.7		d												
S12 180.74 L1+L3	Sch		negative shape	6	isolated			-2.3				0	84	16							
		0.75	subhedric	9	group			-2.4	11.8			0	68	32	94.4	0	2.9	1.4	1.3	0.81	
		0.90	irregular	11	group alignment			-2.5	6.9			0	85	15	97.3	0	0.8	0.1	1.7	0.93	
		0.85	tubular	10	group			-2.0	11.6		301 (L)	0	88	12	96.3	0	1.9	0.3	1.5	0.89	
		0.85	irregular	22	group			-1.8	12.8		d (237)	0	92	8	96.1	0	2.2	0.2	1.5	0.89	
			negative shape	11	group			-3.3	8.1		d										
		0.80	negative shape	13	group			-4.2	12.2		270 (L)	0	68	32	95.1	0	2.4	1.1	1.4	0.85	
			negative shape	10	growth zone			-2.7			273 (L)	0	82	18							
			irregular	1	growth zone			-2.9			223 (L)										
		0.85	negative shape	8	growth zone			-3.6	16.4		d (200)	0	98	2	95.3	0	3.3	0.1	1.4	0.90	
			negative shape	7	growth zone			-2.3													
		0.85	rounded	8	growth zone			-3.0	10.9		256 (L)	0	100	0	96.6	0	1.9	0	1.6	0.89	
		0.85	subhedric	24	group			-3.6	14.7		d (203)	0	70	30	95.4	0	2.3	0.9	1.4	0.90	
		0.85	euhedric	19	group						d (203)	0	100	0	95.9	0	2.7	0	1.5	0.89	
		0.85	subhedric	17	group						d (203)	0	90	10	95.8	0	2.5	0.3	1.5	0.89	
		0.80	subrounded	9	group		-90.7	-3.7	14.1		d (203)	0	90	10	95.8	0	2.5	0.3	1.5	0.89	
0.85	negative shape	10	group			-2.8	14.5		270 (L)	0	86	14									
0.85	subrounded	9	group			-2.8			256 (L)	0	81	19	95.6	0	2.4	0.6	1.4	0.90			
									276 (L)												
S12 182.39 L1	Sch		negative shape	11				-2.3	10.3												
			subhedric	12	growth zone																
		0.85	subhedric	18	alignment		-88.2	-2.8	16.3			0	94	6	95.3	0	3.2	0.2	1.4	0.90	
		0.85	tubular	13	growth zone			-4.0	10.9			0	87	13	96.4	0	1.8	0.3	1.6	0.89	
		0.90	subhedric	11	isolated			-1.4	16.4		d (260-270)	0	91	9	96.2	0	2.1	0.2	1.5	0.94	
		0.80	tubular	14				-1.9	17.1		d (150)	0	95	5	94.0	0	4.5	0.3	1.2	0.86	
			subhedric	18				-1.2			268 (L)	0	39	61							
0.75	euhedric	15	growth zone		-89.7 (V)	-2.1	15.8		d (250)	2	92	6	93.3	0.2	5.0	0.3	1.1	0.81			
S12 183.70 L2	Sch		negative shape	7	isolated						0	100	0								
		0.90	subhedric	11	alignment			-2.4	10.4			0	100	0	97.1	0	1.2	0	1.6	0.94	