

TABLE 6: FLOTATION TEST NO. 4  
Grinding time: 15 min  
Sample: Moína fluorite

Reagents				Flotation			
Name	Addition kg/t	Point of Addition	Conditioning Time min	Stage	Time min	Temp °C	pH
Grind							
MR Sodium silicate	1.89	Cell	1	Magnetic separation	-	-	-
Collector*	0.094	Cell	1	Rougher 1	1½	40	9.1
Collector	0.094	Cell	1	Rougher 2	1	39	9.0
Collector	0.094	Cell	1	Rougher 3	1	41	8.8
Collector	0.094	Cell	1	Rougher 4	1½	40	8.9
Collector	0.094	Cell	1	Rougher 5	1	40	8.9
MR Sodium silicate	0.31	Cell	1	1st cleaner	2½	40	9.1
				2nd cleaner	2½	40	9.2
				3rd cleaner	3	41	9.4

Product	Weight, %		Assay, %				Distribution, %			
	Product	Cumulative	CaF <sub>2</sub>		Fe		CaF <sub>2</sub>		Fe	
			Prod.	Cum.	Prod.	Cum.	Product	Cumulative	Product	Cumulative
3rd Clnr conc	19.0	19.0	54.0	54.0	5.0	5.0	61.4	61.4	5.5	5.5
3rd Clnr tail	1.5	20.5	30.4	52.2	8.35	5.25	2.8	64.2	0.7	6.2
2nd Clnr tail	2.2	22.7	14.4	48.6	9.9	5.7	1.9	66.1	1.2	7.4
1st Clnr tail	7.4	30.1	6.2	38.2	10.4	6.85	2.7	68.8	4.5	11.9
Magnetic	35.8	65.9	11.1	23.5	33.8	18.4	23.8	92.6	69.7	81.6
Ro tail	34.1	100.0	3.6	16.7	9.4	17.4	7.4	18.5	18.4	100.0
Head	100.0	-	16.7	-	17.4	-	100.0	100.0	100.0	-

\*Oleic acid 75%, Akypomine AT 25%.

TABLE 7: FLOTATION TEST NO. 5  
Grinding time: 15 min  
Sample: Moína fluorite

Reagents				Flotation			
Name	Addition kg/t	Point of Addition	Conditioning Time min	Stage	Time min	Temp °C	pH
MR Sodium silicate	2.0	Mill	15	Grind			
Collectors*	0.1	Cell	1	Rougher 1	3	40	9.7
Collector	0.1	Cell	1	Rougher 2	2½	40	9.5
Collector	0.1	Cell	1	Rougher 3	1	40	9.35
Collector	0.2	Cell	1	Rougher 4	1½	40	9.30
Collector	0.2	Cell	1	Rougher 5	1½	40	9.25
				1st Cleaner	3½	41	9.3
				2nd Cleaner	3	41	9.2
				3rd Cleaner	3	40	9.3

Product	Weight, %		Assay, %				Distribution, %			
	Product	Cumulative	CaF <sub>2</sub>		Fe		CaF <sub>2</sub>		Fe	
			Prod.	Cum.	Prod.	Cum.	Product	Cum.	Product	Cum.
3rd Clnr conc non-mag	26.1	26.1	37.0	37.0	7.25	7.25	60.4	60.4	18.0	18.0
3rd Conc mag	17.2	43.3	29.0	33.8	19.5	12.1	31.2	91.6	32.0	50.0
3rd Clnr tail	4.6	47.9	8.5	31.4	17.9	12.7	2.5	94.1	7.9	57.9
2nd Clnr tail	5.6	53.5	4.6	28.6	19.3	13.4	1.6	95.7	10.3	68.2
1st Clnr tail	13.4	66.9	2.1	23.3	22.0	15.1	1.8	97.5	26.0	96.2
Ro tail	33.1	100.0	1.2	15.9	21.8	17.3	2.5	100.0	3.8	100.0
Head	100.0	-	15.9	-	17.3	-	100.0	-	100.0	-

\*Oleic acid 75%, Akypomine AT 25%.