

TABLE 10: FLOTATION TEST NO. 8
Grinding times: Primary grind - 10 min
Regrind - 10 min
Sample: Moins 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	10	Primary grind	-	-	9.8
Collector*	0.1	Cell	2	Rougher 1	2½	40	9.5
Collector	0.1	Cell	2	Rougher 2	2½	40	9.4
Collector	0.1	Cell	2	Rougher 3	3	39	9.3
MR Sodium silicate	-	Mill	10	Regrind bulk rougher concentrate			
				1st Cleaner	4	40	9.5
				2nd Cleaner	3½	39	9.4
				3rd Cleaner	3	40	9.4
				4th Cleaner	2½	40	9.3
				5th Cleaner	2	41	9.3

Product	Weight, %		Assay, %					Distribution, %			
	Product	Cumulative	CaF ₂		Fe		WO ₃	CaF ₂		Fe	
			Prod.	Cum.	Prod.	Cum.		Prod.	Cum.	Prod.	Cum.
5th Clnr conc	10.7	10.7	88.4	88.4	1.4	1.4	0.56	50.4	58.4	0.9	0.9
5th Clnr tail	2.2	12.9	72.7	85.7	4.2	1.9	-	9.9	68.3	0.5	1.4
4th Clnr tail	2.1	15.0	54.0	81.3	7.2	2.6	-	7.0	75.3	0.9	2.3
3rd Clnr tail	2.8	17.8	34.3	73.9	11.0	4.0	-	6.0	81.3	1.8	4.1
2nd Clnr tail	5.1	22.9	12.3	60.3	16.1	6.6	-	3.8	85.1	4.7	8.8
1st Clnr tail	22.6	45.5	6.1	33.4	20.1	13.3	-	8.4	93.5	26.3	35.1
Ro tail	54.5	100.0	1.95	16.3	20.6	17.3	0.08	6.5	100.0	64.9	100.0
Head	100.0	-	16.8	-	17.3	-	0.106	100.0	-	100.0	-

*Oleic acid 75%, Akyponine AT 25%.

TABLE 11: FLOTATION TEST NO. 9
Grinding time: Primary grind - 10 min
Regrind - 10 min
Sample: Moins 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	10	Primary grind		23	9.7
Collector*	0.1	Cell	2	Rougher 1	2½	40	9.5
Collector	0.1	Cell	2	Rougher 2	2½	40	9.3
Collector	0.1	Cell	2	Rougher 3	3	39	9.3
MR Sodium silicate	0.2	Mill	10	Regrind bulk rougher concentrate			
				1st Cleaner	4	40	9.4
				2nd Cleaner	3½	41	9.4
Quebracho	0.1	Cell	3	3rd Cleaner	4	41	9.1
				4th Cleaner	3½	41	9.1
Quebracho	0.1	Cell	3	5th Cleaner	3½	41	9.3
				6th Cleaner	3	41	9.0

Product	Weight, %		Assay, %					Distribution, %				
	Product	Cumulative	CaF ₂		Fe		WO ₃	CaF ₂		Fe		
			Prod.	Cum.	Prod.	Cum.		Prod.	Cum.	Prod.	Cum.	
6th Clnr conc	11.4	11.4	92.5	92.5	1.4	1.4	0.40	0.40	64.9	64.9	0.9	0.9
6th Clnr tail	1.5	12.9	69.4	89.8	5.0	1.8	0.49	0.41	6.4	71.3	0.4	1.3
5th Clnr tail	1.4	14.3	59.2	86.8	6.8	2.3	0.31	0.40	5.1	76.4	0.6	1.9
4th Clnr tail	1.5	15.8	40.7	82.4	9.3	2.9	0.26	0.39	3.8	80.2	0.8	2.7
3rd Clnr tail	2.5	18.3	24.2	74.5	11.7	4.1	0.20	0.36	3.7	83.9	1.8	4.5
2nd Clnr tail	2.8	21.1	11.3	66.1	15.3	5.6	0.09	0.32	1.9	85.8	2.6	7.1
1st Clnr tail	25.5	46.6	5.3	32.8	19.1	13.0	0.07	0.19	8.3	94.1	29.3	36.4
Rougher tail	53.4	100.0	1.8	16.3	19.8	16.6	0.025	0.10	5.9	100.0	63.6	100.0
Head	100.0	-	16.3	-	16.6	-	0.10	-	100.0	-	100.0	-

*Oleic acid 75%, Akyponine AT 25%.