

Test SCL/F3 - Stage grind to 100% -75 μ m at 60% solids (6 min., 500 g charge); deslime at 7 μ m; sulphide pre-float; stage tin rougher floats with PTAA as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions			Reagent Addition kg/t			
	Time (min.)		pH	SSBX	PTAA	H ₂ SO ₄	MIBC
	Conditioning	Flotation					
Sulphide Ro Float 1	2	5	6.8	0.01	-	-	0.04
Sulphide Ro Float 2	2	5	6.8	0.01	-	-	0.02
Tin Ro Float 1	5	5	5.0	-	0.30	0.212	0.02
Tin Ro Float 2	5	5	5.0	-	0.30	0.142	0.01
Tin Ro Float 3	5	5	5.0	-	0.25	0.084	0.01
Tin Ro Float 4	5	5	5.0	-	0.25	0.116	0.01
Tin Ro Float 5	5	5	5.0	-	0.25	0.086	0.01
Tin Ro Float 6	5	5	5.0	-	0.25	0.080	0.01

(b) Results

Test Product	Weight %	Assay %		Distribution %	
		Sn	Total S	Sn	Total S
Sulphide Ro Conc	47.47	0.55	37.4	18.52	80.22
Tin Ro Conc 1	4.45	6.89	11.0	4.25	53.75
Tin Ro Conc 2	2.44				
Tin Ro Conc 3	6.66	8.17	3.24	8.75	18.77
Tin Ro Conc 4	1.51				
Tin Ro Conc 5	1.48	3.09	0.53	15.0	1.16
Tin Ro Conc 6	1.61				
(Tin Ro Conc 1 to 6)	(18.15)	(5.72)		(73.68)	
Tin Ro Tail	30.47	0.28	8.60	6.05	11.84
Slime -7 μ m	3.91	0.63	7.30	1.75	1.29
Calc Head	100.00	1.41	22.1	100.00	100.00
Assay Head		1.40	22.5		

(c) Comments

- (i) Tin losses in -7 μ m slime material of a grind size 100% -75 μ m were very small.