

Test PC1/F3 - Stage grind to 100% -75 μ m at 60% solids (8½ min., 500 g charge); deslime at 7 μ m; sulphide pre-float; stage tin rougher floats with S-3903 as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions		pH	Reagent Addition kg/t			
	Time (min.)			SSBX	S-3903	H ₂ SO ₄	MIBC
	Conditioning	Flotation					
Sulphide Ro Float 1	2	5	6.6	0.01	-	-	0.04
Sulphide Ro Float 2	2	5	6.6	0.01	-	-	0.02
Tin Ro Float 1	5	5	4.5	-	0.01	0.182	0.02
Tin Ro Float 2	5	5	4.5	-	0.01	0.028	0.01
Tin Ro Float 3	5	5	4.5	-	0.01	0.022	0.01
Tin Ro Float 4	5	5	4.5	-	0.01	0.022	0.01
Tin Ro Float 5	5	5	4.5	-	0.01	0.016	0.01
Tin Ro Float 6	5	5	4.5	-	0.01	0.012	0.01

(b) Results

Test Product	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	8.02	0.28	9.21
Tin Ro Conc 1	2.89	1.01	20.17
Tin Ro Conc 2	1.98		
Tin Ro Conc 3	2.60	1.34	28.08
Tin Ro Conc 4	2.51		
Tin Ro Conc 5	2.79	0.80	22.21
Tin Ro Conc 6	3.98		
(Tin Ro Conc 1 to 6)	(16.75)	(1.03)	(70.46)
Tin Ro Tail	66.36	0.06	16.33
Slime -7 μ m	8.87	0.11	4.00
Calc Head	100.00	0.24	100.00
Assay Head		0.24	

(c) Comments

- (i) Results obtained in this test using S-3903 as collector were inferior to that obtained in Tests PC1/F1 and F2 using PTAA and SPA respectively as collector.