

Test PC1/F2 - Stage grind to 100% -75 μ m at 60% solids (8 $\frac{1}{2}$ min., 500 g charge); deslime at 7 μ m; sulphide pre-float; stage tin rougher floats with SPA as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions		Reagent Addition kg/t			
	Time (min.)	pH	SSBX	SPA	H ₂ SO ₄ /NaOH	MIBC
	<u>Conditioning Flotation</u>					
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	-	0.25 0.118/	0.02
Tin Ro Float 2	5	5	4.5	-	0.25 - /0.012	0.01
Tin Ro Float 3	5	5	4.5	-	0.20 - /0.012	0.01
Tin Ro Float 4	5	5	4.5	-	0.20 - /0.016	0.01
Tin Ro Float 5	5	5	4.5	-	0.20 - /0.020	0.01
Tin Ro Float 6	5	5	4.5	-	0.20 - /0.016	0.01

(b) Results

Test Product	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	8.29	0.29	9.20
Tin Ro Conc 1	4.28	2.56	61.35
Tin Ro Conc 2	1.98		
Tin Ro Conc 3	0.54	2.60	10.95
Tin Ro Conc 4	0.56		
Tin Ro Conc 5	1.08	1.55	12.46
Tin Ro Conc 6	1.02		
(Tin Ro Conc 1 to 6)	(9.46)	(2.34)	(84.76)
Tin Ro Tail	73.86	0.01	2.83
Slime -7 μ m	8.39	0.10	3.21
Calc Head	100.00	0.26	100.00
Assay Head		0.24	

(c) Comments

- (i) Results obtained in this test using SPA as collector were similar to that obtained in Test PC1/F1 using the PTAA counterpart. A slightly higher grade of overall tin rougher concentrate was obtained in this test.