

Test SC1/F4 - Stage grind to 100% -75  $\mu$ m at 60% solids (6 min., 500 g charge); deslime at 7  $\mu$ m; sulphide pre-float; stage tin rougher floats using SPA as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions		pH	Reagent Addition kg/t			
	Time (min.)			SSBX	SPA	H <sub>2</sub> SO <sub>4</sub>	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	4.5	-	0.25	0.280	0.02
Tin Ro Float 2	5	5	4.5	-	0.25	0.134	0.01
Tin Ro Float 3	5	5	4.5	-	0.20	0.134	0.01
Tin Ro Float 4	5	5	4.5	-	0.20	0.100	0.01
Tin Ro Float 5	5	5	4.5	-	0.20	0.082	0.01
Tin Ro Float 6	5	5	4.5	-	0.20	0.064	0.01

(b) Results

Test Product	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	48.06	0.52	17.83
Tin Ro Conc 1	3.94	12.1	65.44
Tin Ro Conc 2	3.64		
Tin Ro Conc 3	2.44	4.82	6.54
Tin Ro Conc 4	2.38		
Tin Ro Conc 5	1.88	3.60	2.08
Tin Ro Conc 6	1.72		
(Tin Ro Conc 1 to 6)	(16.00)	(6.49)	(74.06)
Tin Ro Tail	32.90	0.29	6.81
Slime -7 $\mu$ m	3.04	0.60	1.30
Calc Head	100.00	1.40	100.00
Assay Head		1.40	

(c) Comments

- (i) Results obtained in this test using SPA as collector were similar to that obtained in the previous Test SC1/F3 with collector PTAA. The overall tin rougher concentrate grade was again slightly higher as observed when the two collectors were used in comparison in the previous series of tests.