

Test SCL/F5 - Stage grind to 100% -75 μm at 60% solids (6 min., 500 g charge); deslime at 7 μm ; sulphide pre-float; stage tin rougher floats using S-3903 as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions		Reagent Addition kg/t				
	Time (min.)		pH	SSBX	S-3903	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	4.5	-	0.01	0.326	0.02
Tin Ro Float 2	5	5	4.5	-	0.01	0.224	0.01
Tin Ro Float 3	5	5	4.5	-	0.01	0.186	0.01
Tin Ro Float 4	5	5	4.5	-	0.01	0.116	0.01
Tin Ro Float 5	5	5	4.5	-	0.01	0.096	0.01
Tin Ro Float 6	5	5	4.5	-	0.01	0.074	0.01

(b) Results

Test Product	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	47.19	0.57	18.95
Tin Ro Conc 1	2.03	6.98	29.11
Tin Ro Conc 2	3.89		
Tin Ro Conc 3	6.37	12.51	35.60
Tin Ro Conc 4	6.14		
Tin Ro Conc 5	9.58	15.02	11.64
Tin Ro Conc 6	5.44		
(Tin Ro Conc 1 to 6)	(33.45)	(3.24)	(76.35)
Tin Ro Tail	16.84	0.31	3.67
Slime -7 μm	2.52	0.58	1.03
Calc Head	100.00	1.42	100.00
Assay Head		1.40	

(c) Comments

- (i) Results obtained in this test using S-3903 as collector were so far the best among all the other tests using the same collector.