

Test SC1/F6 - 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;
superpan +38 and -38 μm fractions of tin rougher concentrate.

(a) Flotation Conditions and Reagents

Stage	Conditions			Reagent Addition kg/t			
	Time (min.)		pH	SSBX	PTAA	H ₂ SO ₄ /NaOH	MIBC
	Conditioning	Flotation					
Sulphide Ro Float 1	2	5	6.9	0.01	-	-	0.04
Sulphide Ro Float 2	2	5	6.9	0.01	-	-	0.02
Tin Ro Float 1	5	5	5.0	-	0.30	0.250	0.02
Tin Ro Float 2	5	5	5.0	-	0.30	0.132	0.01
Tin Ro Float 3	5	5	5.0	-	0.20	0.106	0.01
Tin Ro Float 4	5	5	5.0	-	0.20	0.114	0.01
Tin Ro Float 5	5	5	5.0	-	0.20	0.100	0.01
Tin Ro Float 6	5	5	5.0	-	0.20	0.088	0.01

(b) Results

Test Product	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	47.31	0.55	20.05
+38 μm Superpanner Conc	0.29	60.9	13.61
+38 μm Superpanner Tail	3.43	2.36	6.24
(+38 μm Tin Ro Conc 1 to 6)	(3.72)	(6.92)	(19.85)
-38 μm Superpanner Conc	0.59	65.0	29.55
-38 μm Superpanner Tail	11.81	2.29	20.84
(-38 μm Tin Ro Conc 1 to 6)	(12.40)	(5.27)	(50.39)
(Tin Ro Conc 1 to 6)	(16.12)	(5.66)	(70.24)
Tin Ro Tail	33.53	0.32	8.26
Slime -7 μm	3.04	0.62	1.45
Calc Head	100.00	1.30	100.00
Assay Head		1.40	
(+38 and -38 μm Superpanner Conc)	(0.88)	(63.6)	(43.16)
(+38 and -38 μm Superpanner Tail)	(15.24)	(2.31)	(27.08)