

Test SC2/BF - Stage grind to 100% -401 μm at 60% solids (6½ min., 16 kg charge); stage sulphide rougher floats in 40 litre cell.

(a) Flotation Conditions and Reagents

Stage	Conditions			Reagent Addition kg/t	
	Time (min.)		pH	PAX	MIBC
	Conditioning	Flotation			
Rougher Float 1	2	5	6.7	0.01	0.03
Rougher Float 2	2	5	-	0.01	-
Rougher Float 3	2	5	-	0.01	-
Rougher Float 4	2	5	-	0.01	0.01
Rougher Float 5	2	5	-	0.01	0.01
Rougher Float 6	2	5	-	0.01	0.01

(b) Results

Test Product	Weight %	Assay %				Distribution %			
		Sn	Acid Soluble Sn	Total S	Fe	Sn	Acid Soluble Sn	Total S	Fe
Sulphide Ro Conc	14.95	0.395	0.05	11.1	13.7	5.31	46.78	11.65	9.52
Sulphide Ro Tail	85.05	1.28	0.01	14.8	22.9	94.98	55.22	88.35	90.48
Calc Head	100.00	1.15	0.016	14.2	21.5	100.00	100.00	100.00	100.00
Assay Head		1.20	0.01	13.8	21.5				

(c) Comments

Talc was observed to float along with sulphide in all the roughing stages; frothing was under control but it was impossible to obtain a clean sulphide concentrate without effective depression of talc minerals; thus no attempt was made to carry out further flotation cleaning in this test.