

The bulk sulphide flotation concentrate contained 78% of the sulphides in Grind B and 87% in Grind C.

Fluorite flotation results revealed that a maximum recovery of 47 percent could be achieved at a grade of 14.3 percent of soluble fluorine through use of oleic acid as collector. Tannic acid was found to be of no value as a fluorite collector and is better known as a depressant for iron oxides in metallic oxide flotation. Sulphonated castor oil as a collector for fluorite was found to be inferior to oleic acid giving lower recovery figures.

Conclusions

- 1. Fine grinding will be necessary.
- 2. Gravity concentration may be effective after removal of the magnetite but some compromise is indicated as too fine a grind would slime the cassiterite and scheelite and hence preclude recovery by gravity.

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