

Flotation Concentration of A Complex Barite-Fluorspar Ore.

s.n - concentrationof jigging equipment for barite



Description: -

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6213Flotation Concentration of A Complex Barite-Fluorspar Ore.

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This invention is applicable to fluorspar ores and products containing associated sulfide minerals such as galena or sphalerite. The froth was collected for 3 minutes when flotation was completed.

concentrationof jigging equipment for barite

In a process of concentration, the step of adding to an aqueous pulp of an ore containing at least one non-silicious mineral of the class consisting of phosphate, calcite, barite and fluorspar in admixture with silicious matter, an organic nitrogenous cationic active collector having a positively charged surface active ion, said collector being used in restricted amount causing it to collect at least one but not all of the specified constituents of the ore in preference to the rest of such constituents; and the further step of subjecting the pulp to a tabling operation to cause a material richer in the selectively collected fraction of the ore and poorer in the other fraction to be ejected at the table side. In larger plants, particularly when fine grinding is necessary, thickening of the classifier overflow is necessary to maintain proper density and feed regulation to flotation. The crude tall oil and sulfate soap products are violent frothers and an excess should be avoided.

process for the flotation of fluorite

In the sulfite process, the lignin in the wood is dissolved by digesting the wood chips with an acid solution of calcium, magnesium, or sodium sulfite at an elevated temperature whereby the lignin forms soluble calcium, magnesium, or sodium lignin sulphonates depending on the base employed. In fact, several amine radicals may be present, each of such radicals being directly or indirectly attached to at least one useful hydrocarbon group. In the normal or so-called acid salt at pH of about 5 in aqueous solution only the strong sulphonic groups are in their salt form; in the so-called neutral salts at about pH 7.

process for the flotation of fluorite

If lead and zinc were present, the same flowsheet would apply to remove a bulk sulphide concentrate which could be subsequently refloated to produce the respective lead and zinc concentrates suitable for marketing.

Concentrating fluorspar by froth flotation

. The material was heated for five minutes and thereafter, while hot, dissolved in butanol in the proportion of 1 g. We have achieved good flotation of fluorspar from both neutral and moderately alkaline pulps by the practice of this invention.

Beneficiation Methods For Washing Barite Powder

To this pulp in a mixer was added 0. Air was then admitted to the cell and resulted in the immediate formation of a heavily mineralized fluorspar froth.

Beneficiation Methods For Washing Barite Powder

A representative portion of the ore was ground to 150 mesh and froth floated by the procedure 5 described in Example I using 2.

Froth flotation process used for the concentration of sulfide ore .

The conditioned pulp is then froth floated by customary mechanical or pneumatic methods to yield an enriched fluorspar froth and a tailings product essentially free of fluorspar and containing the gangue materials. Crushing Plant Complete Flow Chart sand stone crushing plant flow chart good money of quarrycrusher.

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