

Procedure

After leaching liquor is cleared, use plate-and-frame filter press to material liquid storage tank, the transport to Mixer-settler equipment by pump, Copper ions into the organic phase, raffinate return and leaching out. After the loaded organic phase is washed by water, back extraction by 200g/L H₂SO₄, then we'll get the liquor of copper sulfate, then cooling crystallization, get CuSO₄*5H₂O. Reverse extraction organic phase return back to extract again.

Equipment

- | | |
|-----------------------------------|--------|
| 1. Plate-and-frame filter press | 2 sets |
| 2. Industry cooling-water machine | 1 set |
| 3. 2000L reaction still | 2 sets |
| 4. Centrifugal machine | 2 sets |
| 5. Mixer-settler | Some |

Total cost around 600,000USD

Process diagram

