

METHOD FOR PRODUCING MANGANESE SULFATE SOLUTION USING SULFUR DIOXIDE GAS REDUCTION LEACHING METHOD

ABSTRACT

A method for producing an aqueous manganese sulfate solution using a sulfur dioxide gas reduction leaching method includes: a raw material preparation process of preparing a manganese-containing by-product containing manganese and impurities; a pulverizing and washing process of pulverizing and washing the manganese-containing by-product; a reduction leaching process of leaching a pulverized manganese-containing by-product obtained by the pulverizing and washing process; a neutralization process of neutralizing a leached liquid produced in the reduction leaching process; a first purification process of purifying a neutralized liquid produced in the neutralization process; and a second purification process of further purifying a first-purified liquid produced in the first purification process. The reduction leaching process is performed using an inorganic acid and a sulfur dioxide gas.

Fig. 1