



The stability of ferrosilicon dense medium suspensions

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Synopsis

The stability of a ferrosilicon dense medium suspension is one of the most important parameters to keep under control since it determines the density gradient of the medium in the separation zone and thus directly influences separation sharpness. The stability of ferrosilicon suspensions were characterized using settling tests employing a differential pressure method. Particles smaller than 45 μm and especially the ore fines played an important role in the settling behaviour of the solids. High medium stability is favoured by ore fines, fine medium particles, and high medium densities.

Keywords: dense media, ferrosilicon, dense medium stability, ore fines

Introduction

General background

Dense medium separation is the process in which a heavy liquid of an intermediate density is used to separate minerals of different specific gravity. The heavy liquid is typically a suspension of dense powder such as ferrosilicon or magnetite in water. Ferrosilicon is used for high-density applications (medium density: 3200–4200 kg/m^3).

A ferrosilicon suspension must have a large fraction of solids in water to achieve high densities. For example to achieve a medium density of 4000 kg/m^3 , 7 kg of ferrosilicon (density approximately 7000 kg/m^3) should be added to 1 litre of water to make up 2 litres of heavy medium.

The rheology of this thick and fast-settling suspension can be best described by its viscosity and stability. Viscosity is a measure of the medium resistance to fluid flow, while stability is a measure of the tendency of the medium to settle. These two properties are strongly influenced by parameters such as medium density, particle shape, particle size distribution, and the level of contamination with slimes. The viscous characteristics of the dense medium are generally non-Newtonian

(which means that its viscosity is a function of the shear rate), and the term apparent viscosity (at a defined shear rate) is preferred. An ideal medium has a low viscosity to maximize separation and pump efficiency. A high viscosity is undesirable because it reduces the velocity of mineral particles being separated, increasing the chance for misplacement and reducing the separation efficiency. A low viscosity is typically obtained for a low medium density, coarse particles, smooth rounded particles, and clean uncontaminated medium¹.

The shape of ferrosilicon particles depends on the manufacturing process (milling or atomization). In this work, atomized ferrosilicon with a high degree of sphericity (Figure 1) was used.

Stability

Stability is a property of a suspension considered as a non-homogeneous two-phase system; it is related to the rheology of the solid phase in an environment constituted by the liquid phase. The relative movement of the solids in the liquid phase under mass and surface forces determines the degree of homogeneity of the suspension, an important medium property in dense medium separation. The medium stability determines the density gradient of the medium in the separation zone and thus directly influences separation sharpness. Therefore, it is one of the most important parameters to keep under control.

An ideal medium has a high stability, which results from high medium densities, fine medium particles, irregularly shaped particles and the presence of low-density contamination (ore slimes).

Influence of slimes

Slimes are the fines of the ore being treated

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