



The stability of ferrosilicon dense medium suspensions

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*Paper written on project work carried out in partial fulfilment of B.Eng (Mining Engineering) degree

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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Mining and Metallurgy The aims of the symposium were to discuss fundamental and practical aspects of the technology for the production of fine inorganic particles for the metals industrial minerals and advanced ceramics sectors to highlight particle characterization methods and developments and to review major advances in the processing and extractive metallurgy of finely sized minerals 96 conference papers by authors from 19 countries addressed such topics as particle morphology and size analysis physical and chemical methods for producing fine particles processing of minerals using gravity magnetic and electrostatic separation flotation and flocculation phase separation involving fine particles and the hydrometallurgy and pyroprocessing of fine particles This book will be of interest to mineral processing scientists and engineers ceramicists extractive metallurgists and chemical engineers who are faced with the increasing significance of inorganic fine particles either as valuable products or as materials to be treated in mineral processing systems

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Today's Technology for the Mining and Metallurgical Industries, 1989 *Mineral Processing* S. P. Mehrotra, 1995

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covering all the aspects of this very important topic from the description of diverse impacts to the environmental impact assessment EIA which is essential in modern mining projects Proceedings of the XVI International Mineral Processing Congress K. S. Eric Forssberg,1988 **Dense Medium Operators' Conference** ,1987 **IMM Abstracts** Institution of Mining and Metallurgy (Great Britain),1962 **Minerals Science and Engineering** ,1970 **Proceedings of the Sixth Australian Coal Preparation Conference, Mackay, 6-9 September, 1993** Jon J. Davis,1993 Technical Papers Nathaniel Arbiter,1965 *Coal Preparation for Plant Operators* South African Coal Processing Society. Education Sub-Committee,1980 Transactions of Society for Mining, Metallurgy, and Exploration, Inc ,1995 **Proceedings** ,1965 Encyclopedia of Physical Science and Technology ,2002 Of the Encyclopedia of Physical Science and Technology Has been completely updated with no less than 90% revised material and 50% new content throughout the volumes Presents eighteen volumes nearly 800 authoritative articles and 14 500 pages Is lavishly illustrated with over 7 000 photographs illustrations and tables Presents an increased emphasis on the hottest topics such as information processing environmental science biotechnology and biomedicine Includes a final Index Volume containing Thematic Relational and Subject indexes **Yayin** ,1968 **Encyclopedia of Physical Science and Technology** Robert Allen Meyers,1987

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