

Title (en)
METHOD FOR MEASURING DENSITY AND VISCOSITY OF PARTICLE-CONTAINING SOLUTION

Title (de)
VERFAHREN ZUR MESSUNG VON DICHT E UND VISKOSITÄT EINER TEILCHEN ENTHALTENDEN LÖSUNG

Title (fr)
PROCEDE DE MESURE DE LA DENSITE ET DE LA VISCOSITE D'UNE SOLUTION CONTENANT DES PARTICULES

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Abstract (en)
[origin: WO9949296A1] The invention relates to a method for measuring the properties of a solution, and in particular for measuring the solids content, viscosity and air content in solutions which contain solid particles, in which the solution to be measured is lead to the space (3) inside the measuring mechanism (2), the pressure inside which is regulated by a pressure control device (4), and inside which the density of the substance in the solution is measured with a densimeter (1), at which point the prevailing pressure is altered with a pressure control device (4) within the space (3) and the density of the solution is measured again, at least one more time, whereupon the solution's solids content is calculated from the density measurement and the air content is calculated at least from the two different density readings. In a method in accordance with the invention, the measuring mechanism (2) is connected to a cycle or corresponding system, with an interface (6), and the solution being processed in the cycle is lead to the measuring mechanism (2) and the solids content and air content of the solution are measured at the desired intervals, and the solution is lead from the measuring device through the capillary (7) or slit pipe back into the processing cycle, the difference between the current and pressure is measured both within the space of the measuring mechanism (3) and after the capillary/slit pipe, and the solution's viscosity is calculated from these two measurements.

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