Whatâ€™s that? an overview of dry screening

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The process of dry screening is not difficult to define in conventional terms, but first of all you must be able to understand exactly what screening is and how it works. But first I will provide you with the definition of dry screening itself anyway. Dry screening is â€œThe process of screening solid materials without the aid of waterâ€• Sounds simple enough, right? Well not really, but thatâ€™s why in the coming paragraphs you will find out about the process of mechanical screening.

First of all, to truly understand what screening is itâ€™s necessary to know what itâ€™s used for. Itâ€™s c used by the mining and mineral processing industry in order to separate minerals of varying sizes. It can be used in a variety of different positions in the whole process but itâ€™s not necessary to inform you about that. It can be used in many different industries too, though, as the process of screening itself just means to separate things as opposed to any sort of exclusive mining or mineral processing term.

The process starts by weighing the minerals to be separated; the minerals are usually washed but dry screening skips this step. In order to disperse the minerals in question, and to help the process along, a dispersing agent also tends to be used such as sodium silicate.

As you can see just from this very short description of screening, dry screening is not that much different from wet screening apart from the fact it doesnâ€™t use the aid of liquids. Itâ€™s prudent to mak note on dry screening though; dry screening itself has been considered not as efficient as wet screening due to the fact that dispersing agents and water is absent from the process.

When the process is ready to actually start separating the minerals the machine is turned on and the process officially begins. The machine induces vibrations which work in conjunction with the screening cloth itself to separate the different sizes and compositions of the minerals. The material is then gradually thrown to a lower level as the minerals are separated out. As previously mentioned, there are usually several screens in the whole mineral processing line in order to get better results as the sizes of the minerals get smaller and smaller.

Overall, though, dry screening is only different from wet screening in the sense that it does not use water or a dispersing agent. Wet screening is the preferred method for accuracy but dry screening is the preferred method for speed as the separated minerals have to be dried off in the case of wet screening.

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