

Moisture Content in Hydrated Lime

MoistTech Instant NIR Online Moisture Sensors

Hydrated lime is a soft, white, crystalline, very slightly water-soluble powder, obtained by the action of water on lime: the hydration process is referred to as slaked lime. The moisture content is used to control the water addition to ensure moisture content is optimized but doesn't exceed the set limit.



Hydrated lime has multiple uses including building materials, civil engineering, the chemical industry, agriculture, drinking water treatment and sewage treatment. The angle of repose for hydrated lime varies considerably with moisture content. Too much moisture can cause the product to clump, causing blockages in slaked lime and difficulty in loading and transporting material.

MoistTech's IR-3000 series sensor is designed to detect moisture levels that exceed the maximum levels of 1.5-3%. Moisture content that is too high will cause an unusable product as the lime will not flow properly and the purchaser is paying for the excess moisture weight.



Unlike other instrumentation of this type, some of the unique features of the IR-3000 is that it can monitor the product even with small gaps in product flow and is unaffected by ambient light without impacting the accuracy. The IR-3000 is also ideal for installations on chain conveyors and screw conveyors. The MoistTech IR-3000 gauge is positioned at the exit of the lime shaker, 4-12 inches above the hydrated lime.

For additional information or to discuss your application, please contact: