Total Fines Control

Dust Extinction Moisture Level Modifier

Challenge

Fine Particles are a part of any mining or processing process and cause dust problems throughout the entire "Pit to Customer" supply chain. To control this, water needs to the added to keep the material below its Dust Extinction Moisture (DEM) level. This creates its own problems including equipment blockage, carry back, slumping and material fluidity.

Solution

Treating the bulk minerals with a Total Fines Control reduces the moisture required to keep the material below the level to prevent dust (DEM level). The Total Fines Control coates the material surface and lasts until the material is next processed (eg crushed).

Reduces the Dust Extinction Moisture required by 30% - 40%

Benefits

- Reduced Dust: For a given level of moisture the material is less dusty and it is easier to get the material to DEM through addition of moisture.
- Enhanced Efficiency: Drier ore is easier to handle, transport and store, as it is less likely to stick to equipment or form lumps that can cause blockagesin the production process. This can lead to more efficient production and lower operating costs.
- Lower Water Consumption: With lower DEM, the need for water to control dust and regulate moisture content would be reduced, lowering water use and costs.
- Safer Transport: Reduced moisure in the material reduces the chance of it fluidising during transport
- Reduced Shipping Costs: With less moisture in the ore, it would be lighter and require less energy to transport, potentially leading to lower shipping costs.
- Improved Product Quality: Drier ore may improve product quality by reducing the potential for clogging and improving the ability to control particle size and shape, leading to a more consistent and higher quality end product.

Please contact us for a quote or further details:

www.wetearth.com.au | +61 2 6062 3300

WET EARTH