



Drying of Tellurium concentrate

Boliden Mineral AB for Kankberg expansion

This project

Boliden Mineral AB expands their facilities in Kankberg. Torkapparater delivered a drying process which is to be used to dry dewatered filter cake consisting of Tellurium concentrate.

YEAR OF DELIVERY:

2012

TECHNOLOGY:

Indirect dryer, Bojner systems.

TREATED MATERIAL:

Tellurium concentrate.

EVAPORATION CAPACITY:

9 kg/h

DRYNES IN/OUT (wt%):

75 / 99

HEAT SOURCE:

Hot water

HEAT RECOVERY:

Steam concentrate is returned to Bolidens heating system.

SCOPE OF DELIVERY:

One tubular dryer with material handling system, shunted hot water loop and ventilation system.

Alternative solutions

We offer tailor-made systems for drying of all types of solid materials – indirect systems in one or two steps being our specialty. Besides steam, exhaust gases, thermal oil, etc can be applied as heat source. We also offer direct drum drying which is a simple and robust technology, however with less opportunities for heat recovery and elimination of fire hazards. Please get in touch with us and explain your situation!

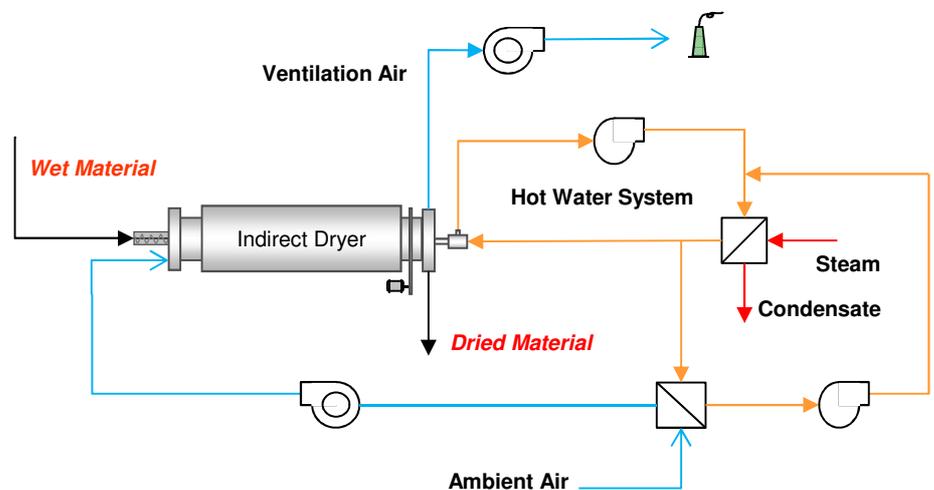


Dewatered Tellurium concentrate is delivered in batches to the dryer from a mechanical press filter through a material handling system equipped with load cells to ensure an even feeding rate of the material into the dryer.

The drying process takes place in an indirectly heated rotating dryer heated by hot water. The hot water flows within the mantle surfaces and heats the dryer.

The hot water is circulated in a shunt system by a pump where the water is heated in a heat exchanger with steam supplied to the process by Bolidens steam system. The condensate after the dryer is returned to Bolidens system.

Preheated air is used as ventilation in the dryer to evacuate the evaporated water from the dryer. The air is ventilating the dryer by fans before and after the dryer.



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