



Reliable

Precise measurement in tank with stirrer

Cost effective

Optimal tank volume utilization

User friendly

Simple mounting and setup

Alumina powder stirring tank

Level measurement in the alumina powder stirring tank

The extraction of Aluminium from natural deposits of bauxite requires complex and expensive processes.

In the 'Bayer process, the bauxite is first mixed with sodium hydroxide, autoclaved and then stirred. After that, it is fed into the calciner (high temperature kiln), where it dehydrates to a fine white powder, aluminium oxide (Al_2O_3). Level measurement in this tank ensures optimal operation of the process.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in stirring tanks

- Reliable measurement even with strongly agitated product surface
- High measurement certainty despite heavy condensation formation
- High operational availability, because wear and maintenance-free

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Measuring range - Distance

120 m

Process temperature

-196 ... 450 °C

Process pressure

-1 ... 160 bar

Accuracy

± 1 mm

Frequency

6 GHz

26 GHz

80 GHz

Beam angle

≥ 3°

Materials, wetted parts

PTFE

PVDF

316L

PP

PEEK

Threaded connection

≥ G¾, ≥ ¾ NPT

Flange connection

≥ DN20, ≥ ¾"

Hygienic fittings

Clamp ≥ 1½" - DIN32676, ISO2852

Slotted nut ≥ 2", DN50 - DIN 11851

Varivent ≥ DN25

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic screw connections ≥ DN50 tube ø53 -

DIN11864-1-A

Hygienic flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-

3-A

DRD connection ø 65 mm

SMS 1145 DN51