LEES OFF

IMMERSION TURBIDIMETER

To carry out measurements with extreme precision and with the maximum cleaning

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AEB®
IMPROVEMENT THROUGH BIOTECHNOLOGY

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LEES OFF

To evaluate the turbidity with the maximum simplicity

One of the problems often encountered is **to evaluate the level of cloudy matters to draw off the must during clarification or flotation or to carry out the racking once fermentation has finished**.
To prevent this problem, it is often necessary to use a sight glass mounted on the pump, to evaluate the quality of the product. These systems however require the mounting of the racking system, and if the clarification has not yet precipitated or surfaced in the case of flotation, one is forced to disassemble or leave the equipment in the tank

An extremely precise system

Lees Off is a nephelometer for tanks easy to be used: by immersing the graduated cable, the turbidity of the must/wine is reported at various levels, and it is possible to decide when to rack or whether to wait.
The advantage of this technology is the **labour saving** in all racking steps, and in **the extreme precision and quality of the cleaning level**. Practical tests have shown a **reduction of 10% of the clarification lees**, which results in a **higher quantity of clear must/wine**.

With **Lees Off** it is possible to distinguish fine lees from rough lees. The ability to adjust the sensitivity of the reader with a proper adjustment system allows working with any type of liquid.

The components

The equipment is composed by:
- **infrared reading sensor**
- LED and acoustic **visual control system of turbidity**
- **calibration system**
- battery charge indicator
- **graduated cable**
- ergonomic box for hardware housing

How does it work?

Once the sensitivity of the instrument has been adjusted according to the turbidity needs, slowly immerse the sensor into the tank, by leaving the graduated cable on the edge of the tank. By controlling the graduated cable, it is possible to check the level of the sediment and accordingly when the sensor encounters the lees.
Given the measurement speed of **Lees Off**, within a few minutes it is possible to decide whether to rack a tank or wait for some other time.

Below is an example of a flotation process, where it is possible to see how in one hour the cap passed from the height of 3,35 m to 1,40 m.

Time	Lees height in cm
15.44	3.35
15.51	3.20
15.57	2.80
16.18	1.80
16.35	1.40
16.52	1.40

After 1 day of filling:

Cm from the height	Torbidity
40	Clear
From 100 to 400	Increasing turbidity
From 400 to 420	Lees

After 3 days of filling:

Cm from the height	Torbidity
160	Clear
From 160 to 400	Increasing turbidity
From 400 to 420	Lees

Fields of utilization

This equipment can be used in the following processing steps:
- clarification or flotation of musts
- racking at the end of fermentation
- second racking post alcoholic fermentation
- classic static clarification