

In order to perform an Alveographic test in accordance with the existing standards (NF EN ISO 27971; AACC 54-30A; ICC 121...) the use of specific oils is recommended (peanut oil in particular).

This study evaluates the impact of several oils (peanut as a reference, Vaseline, paraffine, sunflower, rapeseed and 3 different olive oils) on the Alveographic results for two different flours (weak flour and strong flour). This note provides the main conclusions of this work.



Q1. WHICH TYPE OF OILS CAN BE USED TO REPLACE PEANUT OIL FOR AN ALVEOGRAPHIC TEST WITHOUT MODIFYING THE RESULTS?

The following oils can be used in order to achieve the same results as with peanut oil since they don't modify the Alveographic results (**Table 1**):

Paraffine oil
Sunflower oil

Q2. IS THE EFFECT OF OIL ON ALVEOGRAPHIC RESULTS FLOUR-DEPENDENT?

YES. The impact of oil can vary according to the flour used. For instance, some impacts can only be observed for the weak flour (**Table 1**).

Table 1: Impacts of different type of oils on the Alveographic results

| | Peanut Oil (Reference) | Paraffine Oil | Vaseline Oil | Sunflower Oil | Rapeseed Oil | Olive Oil A | Olive Oil B | Olive Oil C |
|-----|------------------------|---------------|--------------|---------------|--------------|-------------|-------------|-------------|
| P | = | = | + | = | + | + | + | + |
| L | = | = | = | = | = | = | = | = |
| G | = | = | = | = | = | = | = | = |
| W | = | = | = | = | = | = | = | = |
| P/L | = | = | = | = | = | = | +** | = |
| le | = | = | -* | = | = | -* | = | -* |

* Only valid for the weak flour

** Only valid for the strong flour

N.B. : The differences are indicated in relation with the results obtained with peanut oil

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