

# firvin



## What is FIRVIN?

FIRVIN™ is an Australian invention, developed by an Australian company, Ausvat, in the McLaren Vale wine region and patented in 2001. FIRVIN™ is an infinitely controllable heat source for the heat treatment of oak wood. The process produces no contaminants, thus making the outcomes from heating a variable and homogenous substance, such as oak wood, more reliable. The FIRVIN™ process uses infrared heat, which penetrates well below the surface of the oak. FIRVIN™ toasting of oak wood produces a deep, thorough and controlled thermal degradation of the complex compounds contained within the oak.

## Process

The FIRVIN™ toasting process provides infinite control over three of the four essential variables in the oak toasting process:

1. The distance of the oak from the heat source.
2. The temperature of the heat source.
3. The duration of oak application to the heat source.

This allows the fourth variable, the oak itself, to express all of its botanical and regional diversity.

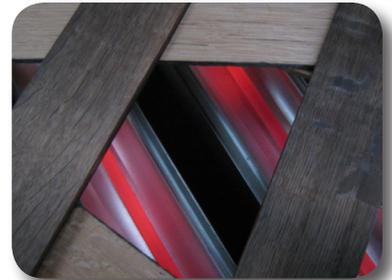
## Outcomes

The FIRVIN™ toasting process gives winemakers absolute control over the oak outcomes. Rather than selecting from pre-determined toast levels, winemakers can stipulate their desired flavour profiles. For example, by controlling the three essential variables, samples taken from oak batches can have a range of toasting regimes applied and be analysed to determine the preferred option, or range of options.

As the FIRVIN™ toasting process is performed locally, it not only allows for toasting to specification, it also allows for toasting just prior to application, therefore ensuring freshness of toast.



*“When it comes to flavour, the winemaker is the expert, they should be in control.”*



*“Don’t restrict yourself to what is on offer. Have the flavour profile you want.”*



## FAQ

### Why use infra red as a heat source?

Process heating by far infra red is accomplished without the need for physical contact with the heat source, nor is there a need for hot air or combustible products to carry heat from the source to the product. This ensures the oak is heated without the introduction of contaminants.

### How does infra red work?

The energy derived from the source is transferred by invisible electromagnetic waves from the infra red source, which is in the far infra red wave length. This energy is absorbed with almost equal speed by all colours and surfaces. When infra red energy strikes the oak surface, the radiation is absorbed and converted to heat above and below the surface. Overall heat generation and the degree to which that heat is conducted below the wood surface is extremely important.

### What about impurities or contaminants in the oak?

The FIRVIN™ toasting temperature is known and controllable, and when combined with the ability to heat below the surface, it means that no yeasts or bacterium can survive.

