

WQS Polyscan

connected decision-making tool

Real-time polyphenols measurement in grapes, must and wines

The Polyscan is the only connected decision making tool that allows harvest date decision for a targeted aromatic profile and polyphenols management during winemaking.

PREMIUM FEATURES INCLUDE:

The Polyscan is based on linear sweep voltammetry. This tool allows rapid and accurate measurement:

- With pre-calibrated electrodes : designed for oxidizable compounds on wine and must.
- Without sample preparation
- At line measurements
- Real time results



Easy data interpretation:

Specific indexes have been developed in order to facilitate data interpretation in the winery:

- Concentration of polyphenols
 - EasyOx: easily oxidizable compounds (caftaric acid, anthocyanins...)
 - PhenOx: total polyphenols
- Quality of polyphenols for reds (traditional maceration):
 - TAN/ACN
- Index of sensitivity to oxidation:
 - Tendency of evolution index (TE)
- Index of maturation: no link with polyphenols!
 - MaturOx





Usage:

For these indexes Polyscan gives reference values that make data interpretation easy by comparison to the median value, minimum, maximum with similar samples (variety, color, step of production).

The cloud database allows pooling anonymous data and makes calculation of reference values on large amount of data possible.

Expert rules / recommendations are displayed during measurement to facilitate decision making.

Main applications:

- Choice of a harvest date for a targeted aromatic profile.
- Pressing management for whites and rosés: free run / hard press separation from polyphenol concentration
- Prefermentative treatments choice for polyphenol management of white and rosés : adaptation of prefermentative treatment (fining / hyperox / inertization)
- Adaptation of ageing strategy based on sensitivity to oxidation

