

Guidelines on CMC VINOPROTECT® (Carboxymethylcellulose solution or CMC)



The use of CMC on rosé wines was forbidden since December 2018, and is authorised again from 08/02/2022 by the OIV. This is an opportunity to review the benefits and guidelines for CMC!

## You said CMC ?

Carboxymethylcellulose (E466) is a derivative of cellulose gum extracted from wood designed for tartaric stabilization. This protective colloid has a **dual action**, inhibiting the nucleation and growth of potassium bitartrate crystals. The risk of tartar precipitation at the pH and T°C of the wine is greatly reduced, which ensures tartaric stabilisation.

The quality and efficiency of CMC depends on 2 factors:

- The **degree of substitution (DS)** expresses the solubility of the gum and thus its effectiveness. The higher the solubility, the more the CMC interacts with wine and blocks the development of tartar crystals.
- The degree of polymerisation (DP) reflects the viscosity of the gum. The lower it is, the easier it is to incorporate the product into the wine, which means a time saving for the operator.

VinoProtect® is designed to offer the best compromise between solubility and efficiency!



## **PROTOCOL FOR PRACTICAL USE**

Before treatment, it is recommended to establish the optimal dose using a laboratory test. Vinoprotect<sup>®</sup> should be added at least 48 hours before bottling, preferably to a wine that has already been fined and prefiltered. Make sure the dilution is complete (no clumps) as the product is viscous. **Maximum authorised dose: 20 g/hL or 40 cL/hL (50 g/L solution).** 





Treatment with VinoProtect<sup>®</sup> (20 cL/hL) on 6 white wines and 3 rosé wines. For each wine, the Degree of Tartaric Instability (DIT<sup>®</sup>) before treatment and the State of Real Tartaric Stability (ESTR<sup>®</sup>) after treatment were measured by conductimetry (Stabilab<sup>®</sup> - Eurodia patent). A wine is perfectly stable if its ESTR<sup>®</sup> is  $\leq$ 3. Here, the wines are all stable after treatment