



# **TANNINS**

The ESSENTIAL range of tannins is the result of a broad programme involving the selection of the best woods and essences and the study of the effects of the different extraction techniques under different working conditions. ESSENTIAL tannins also undergo stringent tests in order to ensure constant quality in all the batches produced. Within the ESSENTIAL range you can find the right tannin for every winemaking need and for every technical requirement. Moreover, they come with advice on the right dosage for each different style of wine and for the various markets around the world. We always recommend performing a taste test before treatment. (For more information and recommendations please ask your local agent or the oenology team from the IOC group.)



# COMPOSITION

Oak tannins.



### **TECHNICAL CHARACTERISTICS**

ESSENTIAL OAK STRONG is an oak tannin preparation. When used during the pre-bottling phase, this product improves the structure, aromatic intensity and persistence of the wine, balancing the organoleptic properties of wines aged in barriques and enhancing both the notes that arise with fining and tertiary aromas.



### **APPLICATIONS**

During the pre-bottling stage, it can increase the complexity and the structure of red wines, and also provide a strong antioxidant action.



# **DOSAGE**

Pre-bottling of red wines: 1-20 g/hL (see the table on the back of this information sheet)

At the pre-bottling stage, add ESSENTIAL OAK STRONG at least 48 hours before the final microfiltration. Perform laboratory tests to determine the technical and sensorial effects of ESSENTIAL OAK STRONG and to find the most suitable dosage for your wine.



#### INSTRUCTIONS FOR USE

Dissolve 1 part product in 10 parts water, must or wine and add to the liquid during a pump-over, preferably using a Venturi tube.



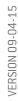
### PACKAGE SIZES AND STORAGE ADVICE

0.250 kg bag

Before opening: store the product in a cool, dry and well-aired environment.

After opening: carefully re-close the bag and store the product as indicated above.

Product for use in winemaking in compliance with the stipulations of EC Reg. no. 606/2009









The process of fining is one of the most important steps to achieving quality wines which meet the demands of the market. This is the time when the fermentation aromas blend with the varietal aromas to give the wine its final character. Young wines are often marked by green, astringent sensations in the mouth and a deep red colour — only during the fining stage do they evolve towards a fuller, rounder flavour, a more purplish-red colour and the expected varietal aromas.

Tannins are phenol compounds which play a vital role in the quality and stability of wines. Significant interest in adding tannins to wines has arisen thanks to their ability to react with numerous different compounds. Colour stabilization: the colour of a wine is stabilized through the formation of stable complexes between the coloured pigments (anthocyanins) in red wines and condensed tannins. Ellagic tannins perform an important anti-laccase action which allows them to prevent browning in white musts. All these interactions lead to a colour which remains more stable over time. Mouthfeel properties: the relationship between tannins and proteins is applied from the moment of tasting – for example, astringent tastes are linked to the reaction of the tannins in the wine with salivary proteins. Moderate, delicate astringency helps create a sense of structure, volume and persistence in the wine. Moreover, the formation of complexes between tannins and polysaccharides gives the tannins a fat, full-bodied feel. Antioxidant power: tannins are powerful antioxidants which can halt the chain oxidation reactions provoked by free radicals. Under this guise they act in synergy with SO2 and ascorbic acid to protect the wine. They allow the winemaker to gain greater control over the redox parameters right from the fining stage. Protein precipitation: proanthocyanidin tannins combine with proteins. This property is used in the clarification and stabilization of wines (together with bentonite) or to treat the effects of overfining. Effects on sulphur compounds: some organosulphur compounds (thiols) are responsible for the unpleasant aromas or the sense of flattening in wines. In red wines, tannins combine with thiols leading to the elimination of a part of the unwanted thiols and therefore reducing the negative impact they produce.

MUST		FINI	NG	PRE-BOTTLING	
W/R	R	W/R	R	W/R	R
	Ave	erage doses	given in		

Perform laboratory tests to determine the technical and sensory effects of the tannin and establish the optimum dose.

Privilège Bleu			
Privilège Noir			
Essential PEP			
Essential PEL			
Essential OAK Progress			
Essential OAK Sweet			
Essential OAK Strong			
Essential OAK Barrel			
Essential Passion			
Essential Fresh			
Essential Free Off			
Essential Free Veg			

		1 - 5	5 - 20	1 - 5	3 - 20	Recommended for the pre-bottling stage
		1 - 5	5 - 20	1 - 5	3 - 20	Recommended for the pre-bottling stage
1 - 10	5 - 20	1 - 10	5 - 20	1-3	5 - 20	Stabilizes colour, improves structure, enhances varietal notes
1 - 10	5 - 20	1 - 10	5 - 20	1-3	5 - 20	Improves structure, enhances varietal notes, antioxidant effect
		1 - 5	10 - 20			Improves structure, stabilizes colour
		1 - 5	10 - 20	1 - 5	3 - 20	Recommended for the pre-bottling stage
		1-5	5 - 20	1-5	3 - 20	Recommended for the pre-bottling stage
		1 - 5	5 - 20	1 - 5	3 - 20	Recommended for the pre-bottling stage
		1 - 5	10-20			Enhances fruity varietal notes, antioxidant effect
				1 - 10	1 - 10	Refreshes white wines
		0,5 - 2	5 - 20			Clarifies, eliminates sense of flattening
		5 - 10	10-20			Reduces grassy odours, enhances varietal notes

For a direct and rapid assessment of the effects of IOC tannins on your wine, you can contact your local agent or the oenology team at the Perdomini-IOC group. We will be glad to perform tests either in your winery or our laboratories to identify the right tannin and the optimum dosage to arrive at your desired goal.