

## WINEMAKING GUIDELINES

# FRUIT FORWARD REDS

Fruit forward reds such as Syrah and Zinfandel, are usually made in a style which are aged less and consumed earlier, although Syrah can improve with age. The average tannin content for Syrah is approximately 485 mg/L and approximately 685 mg/L for Zinfandel. The tannin content range can possibly be as wide as 100 mg/L to more than 1000 mg/L for either varietal. Petite Sirah, also normally made in a fruit forward style, is known to have high tannin content. Tannin content, a shorter aging time and fruit forward style are all considered in the suggestions below.

WINEMAKING STAGE	ENOLOGICAL PRODUCT	ENARTIS PRODUCT	COMMENTS	DOSAGE
RECEPTION/ CRUSHER	SO <sub>2</sub>	Efferbarrique/ Effergran/Winy	Antioxidant Protection: Addition of SO <sub>2</sub> at crusher.	
	Pre-Fermentation Tannin <i>select one for use at this stage</i>	EnartisTan FP	One half added at reception for antioxidant protection. One half added at inoculation for more rapid polymeric color formation. Most effective on sound fruit.	100-400 g/ton
		EnartisTan Rouge	One half added at reception for antioxidant protection. One half added at inoculation for more rapid polymeric color formation. Effective on sound fruit, highly recommended for damaged fruit.	100-400 g/ton
		EnartisTan Fermcolor	One half added at reception for antioxidant protection. One half added at inoculation for more rapid polymeric color formation. While effective on sound fruit, it is highly recommended for damaged fruit.	200-400 g/ton
	Alternative to Oak Powder	Incanto N.C.	Color stabilization; increased aromatic complexity; increased structure and volume. Provides all of the benefits of oak powder during fermentation at 1/10 the dosage rate.	100-1,000 g/ton
COLD SOAK	Macerating Enzyme <i>select one for use at this stage</i>	EnartisZym Color	Aromatic Potential Extraction: Macerating enzyme for fast extraction of polyphenols and increased organoleptic balance.	20-40 g/ton
		Enartis Zym Color Plus	Color Extraction and Stabilization: Production of wines with increased structure and color stability.	20-40 g/ton
INOCULATION	Complex Yeast Nutrient <i>select one for use at this stage</i>	Nutriform Energy	Complex nutrient added at inoculation.	5-15 g/hL
		Nutriform Arom Plus	Complex nutrient high in branched amino acids added at inoculation for use with Enartis Ferm Red Fruit, Enartis Ferm Top 20 and Enartis Ferm ES 488 yeasts.	20-30 g/hL
	Yeast <i>select one for use at this stage</i>	Enartis Ferm VQ Assmanshausen	Aromatic Potential Expression: Popular for Zinfandel because of the long lag phase, good color contribution and aromatics.	200 g/ton or 2 lbs/1,000 gal
		EnartisFerm Vintage Red	Aromatic Potential Expression: The initial closed aromas open with aging, also producing soft tannins with under-ripe grapes. Large glycerol and mannoprotein production. Used in Old World style wines.	200 g/ton or 2 lbs/1,000 gal

The above is achieved to the best of our knowledge and experience.  
The industrial application of the advice provided does not imply any responsibility on the part of our company.

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<b>INOCULATION, CONTINUED</b>	Yeast, continued <i>select one for use at this stage</i>	EnartisFerm ES 488	Aromatic Potential Expression: Gives big structure and an open nose for New World style wines. Best with Syrah, Petite Sirah and Zinfandel.	200 g/ton or 2 lbs/1,000 gal
		EnartisFerm Red Fruit	Secondary Aroma Creation: Best for fruit forward, early release wines such as Zinfandel or Grenache.	200 g/ton or 2 lbs/1,000 gal
		EnartisFerm ES 454	Aromatic Potential Expression: Contributes red fruit aromas and produces fruit forward and elegant wines. Best for Syrah, Zinfandel and Petite Sirah.	200 g/ton or 2 lbs/1,000 gal
		EnartisFerm Top 20	Aromatic Potential Expression: Enhances fruit character and is also able to remove approximately 25% of malic acid. Enhances fresh cherry and strawberry aromas.	200 g/ton or 2 lbs/1,000 gal
		EnartisFerm Q5	Secondary Aroma Creation: Best for red fruit and berry aromas. Best for Syrah, Tempranillo, and Malbec.	200 g/ton or 2 lbs/1,000 gal
	Polysaccharide	EnartisPro Tinto	Varietal Aroma Protection: Primarily for use with Syrah. Mixture of cell wall polysaccharides, grape seed tannin and ellagitannins for more intense and stable color, more intense fruit aromas, and more mouthfeel volume. Prolie Tinto can be used in conjunction with fermentation tannins.	150-400 g/ton
		EnartisPro Blanco	Varietal Aroma Protection: Contributes aroma and color protection, as well as mouthfeel contribution. Best used on more structured whites.	150-300 g/ton
<b>12 HOURS AFTER INOCULATION</b>	DAP <i>if needed</i>	DAP	Diammonium phosphate for additional yeast nutrition.	
<b>2 DAYS AFTER INOCULATION</b>	Oxygen	Oxygen	Pump over or macro-oxygenation.	
	Alternative to Oak Powder <i>select one for use at this stage</i>	Incanto N.C.	Color stabilization; increased aromatic complexity; increased structure and volume. Provides all of the benefits of oak powder during fermentation at 1/10 the dosage rate.	100-1,000 g/ton
		Incanto N.C. Red	Color stabilization; decreased green notes; prevent reduction; increased aromatic complexity, structure, and volume. Provides all of the benefits of medium+ toasted oak powder during fermentation at 1/10 the dosage rate.	20-50 g/hL
<b>1/3 SUGAR DEPLETION</b>	Fermentation Nutrient	Nutriferm Advance	Nutrient providing nitrogen at mid-fermentation along with yeast hulls to adsorb fermentation inhibitors.	20-30 g/hL
	DAP <i>if needed</i>	DAP	Diammonium phosphate for additional yeast nutrition.	
	Tannin <i>select one for use at this stage</i>	EnartisTan Fruitan	Varietal Aroma Protection: Addition of this tannin towards the end of alcoholic fermentation allows for better retention of color and protection against oxidation.	100-200 g/ton
		EnartisTan Red Fruit	Aroma Enhancement: Used in combination with EnartisFerm ES 454, EnartisFerm ES 488, and EnartisFerm Red Fruit which have glycosidase activity that liberates precursors provided by tannins for increased red fruit aroma and protection of primary aromas. Best if half added at inoculation and half at 1/3 sugar depletion.	100-300 g/ton

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