from grape to finished wine



Pre-harvest:

Maturity analysis of key parameters for determination of optimal harvest time.

At the weighbridge:

Analysis of key parameters for maturity and grape soundness for segregation and payment purposes based on objective criteria.



Vinification:

Fast and accurate results for all major parameters ensures close monitoring of the vinification process from start to finish allowing you to make informed decisions about when to rack, intervene and make corrective actions.



Maturation/ageing:

Routine analysis helps you to pursue quality targets and ensure consistency, stability and quality during ageing and to cross-reference your observations with objective measurements.

Pre-bottling:

Fast and accurate analysis to ensure that your wine meets label specifications and in turn avoiding potential delays in the bottling process.

FOSS a reliable partner in the wine industry

FOSS wine analysis instruments were introduced to the wine industry in 1998 and FOSS has quickly become a leading force in quality control of wine at all stages of production.

Through the success of the WineScan[™] range, hundreds of wine producers and laboratories across the wine industry have discovered the ability of FOSS instruments to deliver the rapid and accurate results that winemakers demand. Solutions are based on FTIR analysis technology and Flow Injection Analysis technology – fields in which FOSS has vast experience and knowledge.

Our knowledge and experience is complemented by local presence around the world, ensuring that you can always talk to a dedicated sales and support team located near you.

FOSS

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FOSS

FOSS Wine Solutions Quality through knowledge

N 100 GEN C Stress CD May 201

Dedicated Analytical Solutions

Quality control at the speed of light

Winemaking will never become an exact science and analysis will never replace human judgement. But routine analysis provides a vital objective angle that can make all the difference when making important decisions such as when to pick, how to control fermentation or when to bottle.

In less than a decade, FOSS has revolutionized wine analysis by providing fast, reliable and productivity enhancing solutions for all the critical control points in wine production. Today, dedicated analytical solutions from FOSS are becoming increasingly essential in meeting the demands of a dynamic and global industry. That is why FOSS wine solutions are used in most major wine laboratories and by the vast majority of the biggest wine producers in the world.

The right information delivered at the right time in your winemaking process allows you to make the right decisions for optimal and lasting business results.

	WineScan [™] SO ₂ WineScan [™]		WineScan™ Basic	OenoFoss™ Versatile OenoFoss™ Flex OenoFoss™ Wine			FIAstar™ 2 channe	FlAstar™ 2 channel FlAstar™ 1 channel			A broad portfolio of products for a broad range of needs										
MUST	Free SO, Total SO, Brix Density Malic acid pH Tartaric acid Total acidity Acid rot Ethanol Fermentative activity Gluconic acid Glycerol Grey rot Lactic rot Volatile acidity Alpha amino nitrogen Ammonia Anthocyanins Citric acid Colour intensity Extract Folin C (Total polyphenol) Fructose Gluconic acid Glucose Lactic acid Potassium Reducing sugar Succinic acid OD280 OD520	Brix Density Malic acid pH Tartaric acid Total acidity Acid rot Ethanol Fermentative activity Gluconic acid Glycerol Grey rot Lactic rot Volatile acidity Alpha amino nitrogen Ammonia Anthocyanins Citric acid Colour intensity Extract Folin C (Total polyphenol) Fructose Glucose Lactic acid Glucose Lactic acid Potassium Reducing sugar Succinic acid OD280 OD520	Brix Density Extract Gluconic acid Malic acid pH Reducing sugar Tartaric acid Total acidity	Brix pH Total acidity Volatile acidity Alpha Amino Nitrogen Ammonia Tartaric acid Malic acid Gluconic acid Density			Free SO ₂ Total SO ₂	Free SO ₂ ** Total SO ₂ **	Ultim Typically large	VineSo VineSo nate perfo e producers	Can TM	WineScan™ Basic Image: State St	Instant o Typically sm Fast, easy tradition	OenoFos	STM by anyone ized producers	FIAS State-of-the-a Typically medium to labor	arTM For the second sec				
MUF Krementation	CO ₂ Density Ethanol Glucose+Fructose Malic acid pH Reducing sugar Total acidity Volatile acidity	CO2 Density Ethanol Glucose+Fructose Malic acid pH Reducing sugar Total acidity Volatile acidity	CO ₂ Density Ethanol Glucose+Fructose Malic acid pH Reducing sugar Total acidity Volatile acidity	Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity	Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity				Typical testin	ing volume: >	50 samples/day	Typical testing volume: 30-50 samples/day	covering i Typical te	nost routine quality sting volume: 5-30	y parameters samples/day	distillation and titration free and total SC	methods for determining 02 in finished wine				
EINISHED WINE	Free SO ₂ Total SO ₂ A420*** A520*** A620*** Citric CO ₂ Density Ethanol Ethyl acetate Fructose Gluconic Glucose+Fructose Glucose+Fructose Glucose+Fructose Glucose Glucose Hatcic acid Malic acid Malic acid Methanol pH Reducing sugar Sorbic acid Tartaric acid Tartaric acid Total acidity Folin C (Total polyphenol) Volatile acidity	A420*** A520*** A620*** Citric CO Density Ethanol Ethyl acetate Fructose Glucose Glucose Glucoses Glucoses Glucoses Glucoses Glucose Glycerol Lactic acid Malic acid Malic acid Methanol pH Reducing sugar Sorbic acid Tartaric acid Total acidity Folin C (Total polyphenol) Volatile acidity	CO ₃ Density Ethanol Glucose+Fructose Malic acid pH Reducing sugar Tartaric acid Total acidity Folin C (Total polyphenol) Volatile acidity	A420*** A520*** Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity Density Total sugar*	A420*** A520*** Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity Density Total sugar*	A420*** A520*** A620*** Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity Volatile acidity Density Total sugar*	Free SO ₂ Total SO ₂	Free SO ₂ ** Total SO ₂ **	WineScan WineScan Ultimate, flexibl for fast and a analysis in all s wine production free and tot Number of parameters - Grape/Must 32 - Must Under Fermentation 9 - Finished Wine 38 Analysis time (seconds)	D [™] SO ₂ Dele solution accurate stages of n, including tal SO ₂ 20	WineScan™ gh capacity solution for fast and curate analysis in all stages of wine production 30 9 36 30 30	WineScan™ Basic Analysis of large volumes of samples covering most common analytical needs in fermentation and pre-bottling control 9 9 9 13 30	OenoFoss™ Versatile Quick and easy maturity, fermentation, ageing and pre-bottling quality control 10 11 120	OenoFoss™ Flex Quick and easy fermentation, ageing and pre-bottling quality control 0 11 120	OenoFoss™ Wine Analysis of routine quality parameters for ageing and pre-bottling analysis 0 0 1 1 120	FIAstar™ 2 channel Simultaneous measurement of free and total SO2 2 0 2 60	FIAstar™ 1 channel Measurement of either free or total SO ₂ Possibility to alternate between free and total SO ₂ 1 0 1 60				
Port Wine Sweet Finished Wine	Fructose Glucose Glucose+Fructose Reducing sugar + parameters from DFW Ash Density Ethanol Fixed acidity Folin C (Total polyphenol) Glycerol pH Reducing sugar	Fructose Glucose Glucose+Fructose Reducing sugar + parameters from DFW Ash Density Ethanol Fixed acidity Folin C (Total polyphenol) Glycerol pH Reducing sugar	Glucose+Fructose Reducing sugar + parameters from DFW	Ethanol Glucose+Fructose Malic acid pH Total acidity Volatile acidity (Under development)			Free SO ₂ Total SO ₂	Free SO ₂ ** Total SO ₂ **	Capacity (samples/hr) 30 - 12 Autosampler option Yes Calibration concept Open (S/l + 1) Optional colour module Yes	20	50 - 120 Yes Dpen (S/l + WinISI) Yes	50 Yes Fixed (S/I) Yes	20 No Fixed (S/I) Yes	20 No Fixed (S/I) Yes	20 No Fixed (S/I) Yes	50 50 Yes Open Yes	50 Yes Open Yes				



