

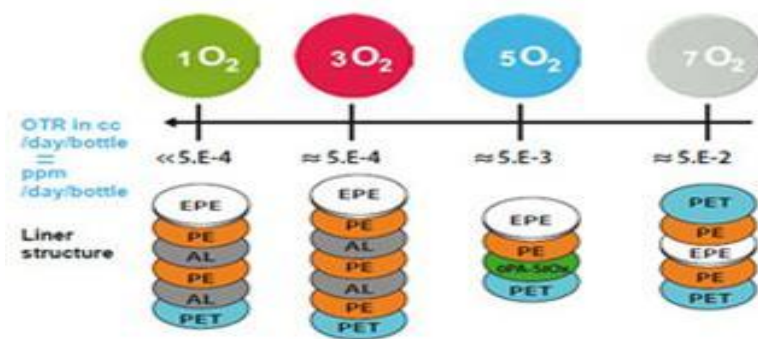
Screw Cap Closure Oxygen Transfer Rates Comparison (2015)

Blenheim Vineyards

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Summary:

Finished wine (Chardonnay) from a single tank was bottled on (2/23/14). An equal amount of bottles were topped with one of three Amcor Stelvin screw caps each with a different oxygen transfer rate (see figure). The rates compared in this experiment were 1, 3, and 7. "1" corresponds to the lowest oxygen transfer rate, and 7 corresponds to the highest oxygen transfer rate (although exact numbers were not available for this study). The wines were treated identically post bottling and during storage.



Lab Analysis:

Results:

There were no chemical differences between the wines. Of respondents (n=15) 40% preferred Rate 1, 46.7% preferred Rate 3, and 13.3% preferred Rate 7

	pH	TA (g/L)	AA (g/L)	%EtOH	Gluc+Fruc	Malic	TSO ₂	FSO ₂	DO
Rate 1	3.60	6.40	0.28	12.80	71	343	103	11	0.22
Rate 3	3.59	6.40	0.26	12.76	71	335	104	11	0.22
Rate 7	3.59	6.37	0.26	12.77	69	308	89	3	0.88

