



DIAM V, our technological cork solution for still wines

DIMENSIONS AVAILABLE: 38/44/47mm

Diameters: 24.2mm, 23.5 mm

Other dimensions: please contact us

Product presentation

DIAM V, a technological closure with a patented composition, manufactured from cork and treated by the exclusive DIAMANT process (eradication of 2,4,6-TCA by supercritical CO₂ treatment)

- Validation by Bureau Veritas concerning the "mastering of the Diamant process : capable of delivering a technological DIAM closure with a non-quantifiable releasable 2,4,6-tri-chloroanisole (TCA) rate"
- Validation by independent laboratories

A consistent closure that offers:

- **Unequaled organoleptic performances :**
 - a systematically controlled ⁽¹⁾ production batch for a releasable TCA⁽²⁾ rate per closure \leq QL ⁽³⁾
 - a controlled and consistent permeability : possibility to choose one of two levels ⁽⁴⁾ of permeability, depending on the profile of your wine
 - a consistent closure that reduces taste variation from one bottle to another
- **Exceptional physical and mechanical performances :**
 - Maximum on-line performance ⁽⁵⁾
 - Perfect insertion at bottling ⁽⁵⁾
 - Dimensional recovery (97% in 30 seconds)
 - No leakage or capillary rising ⁽⁵⁾
 - No dust risk ⁽⁵⁾
 - Easy opening

A closure that offers the positive aspects of cork:

- An elastic, natural and ecological raw material.
- A material that compliments wine.
- A favourite with consumers.

A unique guarantee to assure your consumer of a positive wine experience whilst respecting tradition: Cork tradition without the risk of cork taint

(1)- Indicative value according to internal testing, available upon request

(2)- Guarantee per cork

(3)- QL : the Quantification Limit of the analytical method by gase chromatography is 0.5ng/L

(4)- P10 (increased permeability) and P1

(5)- In compliance with our bottling and storage conditions

DIAM V₁

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ORGANOLEPTIC CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
(soak test in 12% hydro-alcoholic solution acidified to pH 3.5 / 25 corks) SPME/GC/MS	releasable 2,4,6-TCA (ng/L) releasable 2,3,4,6-TeCA(ng/L) releasable PCA (ng/L) releasable 2,4,6-TBA(ng/L)	\leq QL (b) \leq QL (b) \leq QL (b) \leq QL (b)	
DIMENSIONAL CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
(calliper gauge / 32 corks)	Length (mm)	$L \pm 0.4$	AQL 1.5 (A1/R2)
	Diameter (mm)	$D \pm 0.3$	AQL 1.5 (A1/R2)
	Chamfer (mm)	1.0 ± 0.5	AQL 2.5 (A1/R3) (c)
PERMEABILITY			
(permeameter / 3 corks)	Oxygen permeability ratio (mol/m.s.Pa) (d)	P1 = target ratio: 1.10^{-14} P10 = target ratio: 10.10^{-14} permeability = P10 > P1	
PHYSICAL CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
(4 jaw corker / 5 corks)	dimensional recovery / 30sec. (%) (e)	$\geq 97\%$	AQL 2.5 (A0/R1)
(traction compression machine / 5 corks)	elastic recovery (N/cm ²) (e)	$> 2, 5$	AQL 2.5 (A0/R1)
(calibrated tubes / 6 corks)	liquid tightness (%) (e)	100% > 1.5 bars	
(on CETIE bottle neck / 5 corks)	extraction force (daN)	$18 < 100\% < 35$ (f)	
(by stirring and filtering / 10 corks)	dust content (mg/cork)	≤ 0.3	

The above technical specifications are valid for up to 60 months. They comply with FDA standards (CFR21 code) and 2002/72/CE and 94/62/CE European regulations.

(a) The above specifications assume compliance with manufacturer's bottling and storage guidelines.

(b) QUANTIFICATION LIMIT (QL): the quantification limit by SPME/GC/MS is 0.5ng/L for TCA, it is 1ng/L for TeCA and PCA and it is 2ng/L for TBA. This is an indicative value based on internal methodology, available upon request.

(c) ACCEPTABLE QUALITY LEVEL (AQL): A2/R3 implies that for 32 corks tested: the batch is accepted if a maximum of 2 corks only, show results outside our specifications and the batch is refused if 3 or more corks show results outside our specifications.

(d) The ratio is established during product validation trials according to internal methodology, available on request.

(e) The follow up frequency of this parameter is established in order to regularly evaluate our production batches.

(f) Values are established for corks with a diameter between 24 and 24.5mm (length = 44mm) with a silicone-based surface treatment.

Washing upon request, please contact us.

* DIAMANT, an OENEO BOUCHAGE / CEA technology (PATENT EP 1 216 123 B1).

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