



## **DIAM**, our technological cork solution for still wines

**DIMENSIONS AVAILABLE: 38/44/47mm**

**Diameters: 24.2mm / 23.5mm**

**Other dimensions: please contact us**

### **Product presentation**

**DIAM, 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
- The only VINTECH 2004 gold trophy award

### **A consistent closure that offers:**

- **Unequaled organoleptic performances :**
  - a systematically controlled <sup>(1)</sup> production batch for a releasable TCA<sup>(2)</sup> rate per closure  $\leq$  QL <sup>(3)</sup>
  - a controlled and consistent permeability : possibility to choose one of two levels <sup>(4)</sup> 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 <sup>(5)</sup>
  - Perfect insertion at bottling <sup>(5)</sup>
  - Rapid elastic recovery (97% in 30 seconds)
  - No leakage or capillary rising <sup>(5)</sup>
  - No dust risk <sup>(5)</sup>
  - 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

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<b>ORGANOLEPTIC CHARACTERISTICS</b>			
<b>Method</b>	<b>Parameters</b>	<b>Specifications</b>	<b>Tolerances</b>
(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 $\leq$ QL $\leq$ DL (c)	
<b>DIMENSIONAL CHARACTERISTICS</b>			
<b>Method</b>	<b>Parameters</b>	<b>Specifications</b>	<b>Tolerances</b>
(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)	$2.0 \pm 0.5$	AQL 2.5 (A1/R3) (d)
<b>PERMEABILITY</b>			
(permeameter / 3 corks)	Oxygen permeability ratio (mol/m.s.Pa) (e)		P1 = target ratio: $1.10^{-14}$ P10 = target ratio: $10.10^{-14}$ permeability = P10>P1
<b>PHYSICAL CHARACTERISTICS</b>			
<b>Method</b>	<b>Parameters</b>	<b>Specifications</b>	<b>Tolerances</b>
(4 jaw corker / 5 corks)	dimensional recovery / 30sec. (%) (f)	$\geq 97\%$	AQL 2.5 (A0/R1)
(traction compression machine / 5 corks)	elastic recovery (N/cm2) (f)	$> 2,5$	AQL 2.5 (A0/R1)
(calibrated tubes / 6 corks)	liquid tightness (%) (f)	$100\% > 1.5$ bars	
(on CETIE bottle neck / 5 corks)	extraction force (daN)	$18 < 100\% < 35$ (g)	
(by stirring and filtering / 10 corks)	dust content (mg/cork)	$\leq 0.3$	
(by titration / 4 corks)	residual peroxide (mg/cork)	$\leq 0.1$	

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. This is an indicative value based on internal methodology, available upon request.

(c) DETECTION LIMIT (DL): the detection limit by SPME/GC/MS is 0.2ng/L. This is an indicative value based on internal testing methods, available on request.

(d) 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.

(e) The ratio is established during product validation trials according to internal methodology, available on request. (f) The follow up frequency of this parameter is established in order to regularly evaluate our production batches.

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

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

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