

# DIAM 3

## DIAM 3, respects the personality of wine aromas.

DIMENSIONS AVAILABLE: **38 / 44** mm  
Diameters: **23,5** mm / **24,2** mm

**DIAM 3**, 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) validate by independent laboratories.

### A consistent closure that offers:

- Unequalled organoleptic performances
- A systematically controlled (3) production batch for a releasable TCA(1) rate per closure < QL (2)
- A consistent closure that reduces taste variation from one bottle to another
- Maximum on-line performance (4)
- Perfect insertion at bottling (4)
- Dimensional recovery (96% in 30 seconds)
- No leakage(4)
- No dust risk (4)
- 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)- Guarantee per cork

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

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

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

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**DIAM 3**, 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 CO<sub>2</sub> treatment) validate by independent laboratories.

Technical specifications (a)

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)	< QL (b) < QL (b) < QL (b) < QL (b)	
DIMENSIONAL CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
Calliper gauge / 32 corks	Length (mm)	L ± 0.4	AQL 1.5 (A1/R2)
	Diameter (mm)	D ± 0.3	AQL 1.5 (A1/R2)
	Chamfer (mm)	2.0 ± 0.5	AQL 2.5 (A1/R3)(c)
PHYSICAL CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
4 jaw corks / 5 corks	dimensional recovery / 30sec. (%) (e)	≥ 96%	AQL 2.5 (A0/R1)
Traction compression machine / 5 corks	elastic recovery (N/cm <sup>2</sup> ) (e)	> 2.2	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 36 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 corksonly, show results outside our specifications and the batch is refused if 3 or more corks show results outside our specifications.
- (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.

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

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