

# DIAM 2



## DIAM 2, respects and secures the wine aromas.

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

**DIAM 2**, 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) validated by independent laboratories.

### A consistent closure that offers:

- Unequalled organoleptic performances
- A systematically controlled <sup>[3]</sup> production batch for a releasable TCA<sup>[1]</sup> rate per closure < QL <sup>[2]</sup>
- A consistent closure that reduces bottle variation
- Perfect insertion at bottling <sup>[4]</sup>
- Rapid Dimensional recovery (90% in 30 seconds)
- No leakage<sup>[4]</sup>
- No dust risk <sup>[4]</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 favorite with consumers

A unique guarantee to assure your consumer of a positive wine experience while respecting tradition: **Cork tradition without the risk of TCA.**

[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

**OENEO Bouchage SAS**  
Espace Tech Ulrich  
66400 Céret - France  
Tél : +33 (0)4 68 87 20 20  
Fax : +33 (0)4 68 87 35 36  
info@oeneo-bouchage.fr  
www.oeneo-bouchage.com

**OENEO Closures USA**  
902 Enterprise Way, Suite M  
Napa, CA 94558, USA  
Tél : +1-707-256-2830  
Fax : +1-707-256-2831  
info@diam-cork.com  
www.diam-cork.com



**DIAM 2**, 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) validated by independent laboratories.

Technical specifications <sup>[a]</sup>

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 <sup>[b]</sup> < QL <sup>[b]</sup> < QL <sup>[b]</sup> < QL <sup>[b]</sup>	
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) <sup>[c]</sup>
PHYSICAL CHARACTERISTICS			
Method	Parameters	Specifications	Tolerances
4 jaw corks / 5 corks	dimensional recovery / 30sec. (%) <sup>[e]</sup>	≥ 90%	AQL 2.5 (A0/R1)
Traction compression machine / 5 corks	elastic recovery (N/cm2) <sup>[e]</sup>	> 1.6	AQL 2.5 (A0/R1)
Calibrated tubes / 6 corks	liquid tightness (%) <sup>[e]</sup>	100% > 1.5 bars	
On CETIE bottle neck / 5 corks	extraction force (daN)	15 < 100% < 40 <sup>[f]</sup>	
By stirring and filtering / 10 corks	dust content (mg/cork)	≤ 0.3	
By titration / 4 corks	residual peroxide (mg/cork)	≤ 0.1	

The above technical specifications are valid for up to 24 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.

[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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