# Technical Sheet **NATURAL BEEO** Cork Stoppers



### BEEO® was born follow investment in R&D awareness. Continuous product de of a new cork stopper, treatment processes. BEE not only for all biodynam brands and wines that h

# BEEO<sup>®</sup> was born following M.A.SILVA's continuous investment in R&D and Social & Ecological awareness.

Continuous product development led to the creation of a new cork stopper, with unique disinfection and treatment processes. BEEO® stoppers are recommended not only for all biodynamic organic wines, but also for brands and wines that have sustainability concerns.

We believe this is the way to go, and we get our inspiration from the best engineer ever: Nature.

The BEEO® corks are manufactured from cork planks sourced from properties managed according to biological agriculture principles.

# **TECHNOLOGIES**

M-A-SI



**DYNAVOX®** Raw material sterilization and vaporization



-267,79

**SARA ADVANCED®** Extraction of volatiles and sensory standardization



**ONEBYONE®** Individual cork testing



MASZONE® Elimination of microorganisms



request

The mark of responsible forestry Products are available as FSC® certified on

We can supply FSC® certified products (FSC – C009204) upon request.

## **SUSTAINABILITY**

### ALL FOR THE ENVIRONMENT

Our actions are proven through the quality of our cork stoppers, the partnerships we build, the figures we present and our contribution to an increasingly greener world.

### **NEGATIVE CARBON FOOTPRINT**

Study carried out by KPMG according to the Group's strategic sustainability axis.



# **Technical Sheet** NATURAL BEEO Cork Stoppers



Store the stoppers in a clean, well-ventilated and

odor-free place, away from products containing

### TECHNICAL SPECIFICATIONS

#### APPLICATION

NATURAL cork stoppers can and should be used with all kinds of wines, regardless of the aging period and bottle shape.

#### SIZES

Nominal ± 0.7 mm Length Nominal + 0.5 mm Diameter Runout Ovalisation ≤ 0.7 mm

#### PHYSICAL Moisture

Dimensional recovery

#### FUNCTIONAL

Stopper Extraction Forces: Sealing capacity Capillarity

4%-8% > 96%

15daN<Fe<40daN No leaks at 1.5 bar <1mm

#### STORAGE

Use no later than Moisture in storage Storage temperature 6 months 40% - 70% RH

chlorine.

Storage place

15°C-20°C | 59°F-68°F

ADVICE

Not suitable for hot-fill bottling. Transport under 30 degrees.

#### SURFACE TREATMENT Beeswax

 $^{\scriptscriptstyle (I)}$  Replaces the use of paraffin and silicone-based synthetic treatments with beeswax

Guarantee of physical-mechanical performance.

**PRODUCTION FLOW** 

CORK OAK STRIPPING [Cork planks are stripped from cork oak trees]

YARD GC/MS TCA CONTROL

**STABILIZATION** [ Planks are stored from 6 to 9 months on a concrete floor ]

BOILING **DYNAVOX®** SYSTEM [ Planks are sterilized and disinfected through a vaporized pressure system.

**Raw Material** 

GC/MS TCA CONTROL

#### STABILIZATION AFTER BOILING

[Stabilization period after vaporization ]

#### CORK PLANKS SORTING FOR PRODUCTION

[ First sorting of planks for production 1

### Production

CORK PLANK PUNCHING STERILIZATION PRE-DRYING GC/MS TCA CORRECTION OF SIZES CUTTING SARA ADVANCED® SYSTEM CONTROL Punching of First moisture Precise correction NATURAL cork stoppers Planks are cut cork strips level definition of corks sizes into strips are vaporized and sterilized MANUAL SORTING ELECTRONIC GRADING DRYING GC/MS TCA WASHING ELECTRONIC GRADING 2D AND 3D CONTROL MASZONE® SYSTEM 2D AND 3D Final visual Final moisture Second electronic sorting Washing and sterilization First electronic sorting grading control definition to determine visual classes. to determine visual classes. **Customization and Packaging** PRINTING FINAL TREATMENT GC/MS TCA PACKAGING CONTROL Customized printing on stoppers To facilitate the bottling process According to specifications

Naturally **Better**