

Technical Sheet

# SILKTOP ADVANCED® Cork Stoppers



**M·A·SILVA**  
Premium Cork Stoppers



**SILKTOP® cork stoppers represent a combination between the strictness of sealing and the best properties of natural cork stoppers.**

Throughout the production process, our cork stoppers are moulded using cutting-edge technology, naturally guaranteeing the best quality for M.A.SILVA technical stoppers. M.A.SILVA's portfolio has different SILKTOP® cork stoppers, with different technical specifications.

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## TECHNOLOGIES



### **DYNAXOX®**

Raw material sterilization  
and vaporization



### **SARA ADVANCED®**

Extraction of volatiles  
and sensory standardization



### **NEOTECH®**

Sterilisation and  
vaporisation of granules



### **MASZONE®**

Elimination  
of microorganisms

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# SILKTOP ADVANCED®

## Cork Stoppers

### TECHNICAL SPECIFICATIONS

**SIZES**

Length  
Diameter  
Standard sizes

Nominal ± 0,5 mm  
Nominal ± 0,3 mm  
39x23,5 mm | 44x23,5 mm

**FUNCTIONAL**

Stopper extraction forces  
Sealing capacity  
Torsion  
Shear stress

15daN<Fe<45daN  
No leaks at 2 bar  
≥ 35°  
> 6 daN/cm2

**PHYSICAL**

Moisture  
Dimensional recovery  
Density  
Resistance to boiling water

4% – 8%  
> 96%  
Nominal ± 40 kg/m3  
No disintegration

**STORAGE**

Use no later than  
Moisture in storage  
Storage temperature  
Storage place

6 months  
40% – 70% RH  
15°C – 20°C | 59°F – 68°F  
Store the stoppers in a clean, well-ventilated and odor-free place, away from products containing chlorine.

### PRODUCTION FLOW

#### Raw Material

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

**GC/MS TCA CONTROL**

**YARD 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 ]

**GC/MS TCA CONTROL**

**STABILIZATION AFTER BOILING**  
[ Stabilization period after vaporization ]

**CORK PLANKS SORTING FOR PRODUCTION**  
[ First sorting of planks for production ]

#### Production

**GRINDING**  
Cork granule production process

**STERILIZATION NEOTECH® SYSTEM**  
Cork granules are vaporized and sterilized

**GC/MS TCA CONTROL**

**AGLOMERATION**  
Production of micro agglomerated bodies

**GC/MS TCA CONTROL**

**DISCS PRODUCTION**  
Thinner strips of cork are punched for disc purposes

**CORRECTION OF SIZES**  
Precise correction of corks sizes

**GC/MS TCA CONTROL**

**GLUING**  
Assembly of agglomerated bodies and discs with grade glue

**CONTROLO DE TCA POR GC/MS**

**STERILIZATION SARA ADVANCED® SYSTEM**  
Cork stoppers are vaporized and sterilized

**ELECTRONIC GRADING 2D AND 3D**  
Electronic sorting to determine visual classes of the discs.

**DUSTING DOWN**

**WASHING MASZONE® SYSTEM**  
Washing and sterilization

**GC/MS TCA CONTROL**

**DRYING**  
Final moisture definition

**ELECTRONIC GRADING 2D AND 3D**  
Electronic sorting to determine visual classes.

#### Customization and Packaging

**PRINTING**  
Customized printing on stoppers

**FINAL TREATMENT**  
To facilitate the bottling process

**GC/MS TCA CONTROL**

**PACKAGING**  
According to specifications