

Technical Sheet

SILKTOP®

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.

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



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 DYNAXOX® 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