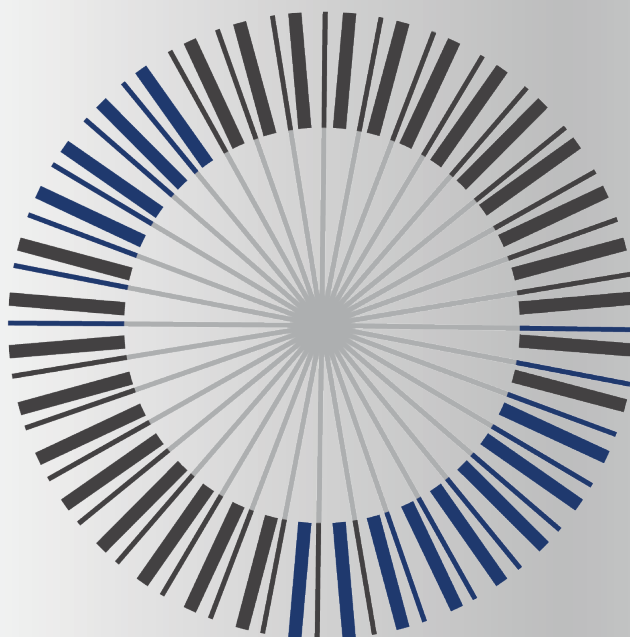




**MASILVA**  
WEARECORK



**NEOTECH<sup>®</sup>**

**PREMIUM** CORK PRODUCER

# NEO<sup>®</sup> CONCEPT

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With determination to continuously evolve and meet market trends and demands, MASILVA has improved its product quality with a new investment in a technology designed to sterilize cork granules.

Consumers can now enjoy the look and feel of natural cork with our NEO<sup>®</sup> micro agglomerate. NEO<sup>®</sup> cork stoppers carry our ongoing commitment to sustainability and the product value chain.

The cork shavings are carefully selected and processed and a series of mechanical operations reduce the material to even-sized particles. Once the granulate has been ground, it is treated with fluidised bed technology.

These particles will be subjected to a steaming and sterilization process via our NEOTECH<sup>®</sup> system. Only food grade bonding agents are used.

**AN INTERNATIONAL REFERENCE  
IN PRODUCT QUALITY**

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**LEADER IN TECHNOLOGY**

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**PREMIUM RAW MATERIALS**

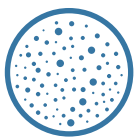


# NEOTECH<sup>®</sup>

# METHODOLOGY AND KEY FEATURES

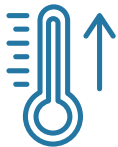
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All granules come from carefully selected raw materials at the raw material center, located in the heart of Alentejo.



## No mechanical intervention

- The granules are transported through a process of vibration.
- The natural elastic memory of the granules is preserved.



## Improved transfer of mass and heat

- Product consistency.
- Improved effectiveness and technical performance of the final product.



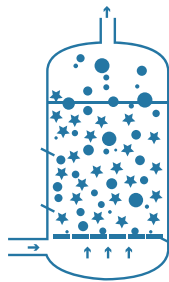
## Ecological and sustainable

- No chemical solvents.
- Use of controlled pressure and steam.



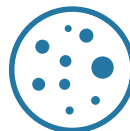
## NEOTECH Advantages

- Elimination of granule layering.
- Greater consistency in the performance of the natural features of the cork.
- Improved physical properties of the granules.



## The granulate is treated with fluidized bed technology for molecular interaction with the gaseous substance

- The gaseous flow goes through and involves all the cork particles, thus creating conditions for rapid mixing, turbulence and sterilisation.
- Highly optimised TCA removal, for ND levels.



## Consistency of the granules through treatment

- Homogenous efficiency in all cork granule sizes.
- The consistency and natural appearance of the granules is preserved without cellular structure destruction.



## Rehumidification and treatment cycles

- Humidity is under constant monitoring.
- Physical performance of the granules is ensured.

**A CORK  
STOPPER  
TAILOR-MADE  
FOR YOUR WINE.**



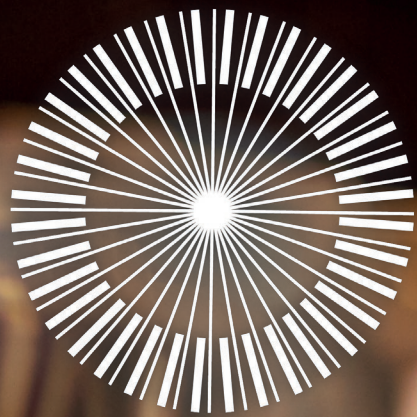


**TCA**

NON DETECTABLE

**OTR**

DIFFERENT OPTIONS



**NEOTECH®**



## NEO PRESTIGE®

### TECHNICAL SPECIFICATIONS

#### SIZES

Length: Nominal  $\pm 0.5$  mm

Diameter: Nominal  $\pm 0.3$  mm

Standard sizes: 38x24 mm, 44x24 mm, 47x24 mm

#### PHYSICAL

Moisture: 4 %-8 %

Dimensional recovery: > 96 %

Density: Nominal  $\pm 40$  Kg/m<sup>3</sup>

Resistance to boiling water: no disintegration

Granule size: 0.5-1 mm

Production: Individual Moulding

#### FUNCTIONAL

Stopper extraction forces: 15 daN – 45 daN  
(coated stoppers only)

Sealing capacity: no leaks at 1.5 bar

Capillarity: < 1 mm

OTR: 0.016cm<sup>3</sup>/day under 100% O<sub>2</sub> atmosphere

TCA: Non Detectable (1)

(1) Releasable TCA content below the 0,5 ng/Ldetection limit;  
analysis performed in accordance to ISO 20752.

#### STORAGE

Use no later than: 3 months (coated stoppers only)

Moisture in storage: 40 %-70 % RH, non-condensing

Storage temperature: 15 °C–20 °C

Storage place: Store the stoppers in a clean, well-ventilated  
and odor-free place, away from products containing chlorine.



## NEO PLUS®

### TECHNICAL SPECIFICATIONS

#### SIZES

Length: Nominal  $\pm 0.5$  mm

Diameter: Nominal  $\pm 0.3$  mm

Standard sizes: 38x24 mm, 44x24 mm, 47x24 mm

#### PHYSICAL

Moisture: 4 % - 8 %

Dimensional recovery: > 96 %

Density: Nominal  $\pm 40$  Kg/m<sup>3</sup>

Resistance to boiling water: no disintegration

Granule size: 0.5 - 2 mm

Production: Individual Moulding

#### FUNCTIONAL

Stopper extraction forces: 15 daN – 45 daN  
(coated stoppers only)

Sealing capacity: no leaks at 2 bar

Capillarity: < 1 mm

OTR: 0.023cm<sup>3</sup>/day under 100% O<sub>2</sub> atmosphere

TCA: Non Detectable (1)

(1) Releasable TCA content below the 0,5 ng/Ldetection limit;  
analysis performed in accordance to ISO 20752.

#### STORAGE

Use no later than: 3 months (coated stoppers only)

Moisture in storage: 40 %-70 % RH, non-condensing

Storage temperature: 15 °C–20 °C

Storage place: Store the stoppers in a clean, well-ventilated  
and odor-free place, away from products containing chlorine.

# NEOTECH®

# PRODUCTION FLOW



## CORK OAK STRIPPING

■ Cork planks are stripped from cork oak trees



## BOILING DYNAVOX® SYSTEM

■ Planks are sterilized and disinfected through a vaporized pressure system



## STABILIZATION AFTER BOILING

■ Stabilization period after vaporization

## YARD STABILIZATION

■ Planks are stored from 6 to 9 months on a concrete floor



## CORK PLANKS SORTING FOR PRODUCTION

■ First sorting of planks for production



## GRINDING

■ Cork granule production process



## STERILIZATION NEOTECH® SYSTEM

■ Cork granules are vaporized and sterilized

## CORRECTION OF SIZES

■ Precise correction of corks sizes



## INDIVIDUAL MOULDING

■ Production of micro agglomerated corks



## SORTING

■ Cork sorting according to visual quality



## WASHING MASZONE® SYSTEM

■ Washing and sterilization

## DRYING

■ Final moisture definition



## PACKAGING

■ According to specifications



## FINAL TREATMENT

■ To facilitate the bottling process



## PRINTING

■ Customized printing on stoppers

[www.masilva.pt](http://www.masilva.pt)



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