

# IN SEARCH FOR THE MOST SUSTAINABLE STOPPER 

## ...WE DISCOVERED CORKCOAL



In the creation of micro-granulated cork stoppers as we know it, complex industrial processes are employed, using large quantities of water, energy and chemical agents. All of this to remove unwanted properties from cork such as: TCA, taste, smell, defects, colour...

## Corkcoal

WE MIX CORK WITH ACTIVATED CHARCOAL.

Activated charcoal naturally neutralizes and traps unwanted substances from the cork.

Corkcoal stoppers accept and integrate variations in microgranule colour and size with the aim of offering the most sustainable stopper on the market.

WHY CORKCOAL?

# Corkcoal 

## RAW MATERIALS

ORIGIN \&

## CARBON FOOTPRINT

## Industrial FEWER WASHES AND NO <br> PROCESSES CHEMICAL BLEACHES

## LESS WASTE WITHOUT SACRIFICING QUALITY

WE ACHIEVE A BETTER USE OF RAW MATERIALS, REDUCING THE VOLUME OF DISCARDS AND WASTE

ACTIVATED CARBON ACTS AS A MEANS OF NATURALLY NEUTRALISING UNWANTED SUBSTANCES IN THE CORK, THUS REDUCING THE WASHING PROCESS AND WITHOUT THE NEED FOR CHEMICAL BLEACHING AGENTS.

## WE REDUCE THE CARBON <br> \section*{FOOTPRINT}

THE USE OF ACTIVATED CHARCOAL FACILITATES A SIGNIFICANT REDUCTION OF THE CARBON FOOTPRINT ACROSS THE ENTIRE PROCESS OF INDUSTRIALIZATION OF A MICROGRANULATED stopper of the same size.

## WHERE OTHERS SEE DEFECTS, WE SEE NATURAL QUALITIES.

THANKS TO THE USE OF ACTIVATED CARBON, AN IMPURITY OR A NOTICEABLE DIFFERENCE
IN THE SIZE OR COLOUR OF THE CORK PARTICLES IS NOT A PROBL WE REDUCE THE DISCARD VOLUME OF RAW MATERIALS AND CONSEQUENTLY, THE WASTE.

WE REDUCE THE IMPACT OF THE INDUSTRIAL WASHING PROCESS, ACCEPTING COLOUR DIFFERENCES IN THE MICROGRANULES. BY DOING THIS, WE MINIMISE WATER AND ENERGY CONSUMPTION.
...AND ABOVE ALL, WE DO SO WITHOUT THE USE OF CHEMICAL BLEACHES

ACTIVATED CHARCOAL IS OF PLANT ORIGIN AND, ALTHOUGH ITS PRODUCTION GENERATES A CONSIDERABLE CARBON FOOTPRINT THE BENEFITS IT PROVIDES IN TERMS OF INDUSTRIAL EFFICIENCY ORE THAN COMPENSATE FOR ITS USE.

# Corkcoal 

## MORE EFFICIENT <br> DESIGNS

MONOBLOC STOPPERS
CORKCOAL MONOBLOC (ONE PIECE) MICROGRANULATED STOPPERS WITHOUT THE USE OF GLUES IN THE ASSEMBLY WITH OTHER MATERIALS.
material LIGHTER STOPPERS WITH SHORT OPTIMISATION

## BECAUSE OF SUSTAINABILITY

THE MONOBLOC MICROGRANULATION ALLOWS US TO OBTAIN BAR-促 SINGIE INDUSTRIAL PROCESS.

MOST OF THE CURRENT BAR-TOP STOPPERS ARE MADE OF TWO MATERIALS (CORK + WOOD, PLASTIC OR METAL ALLOYS) AND USE GLUE FOR THE ASSEMBLY

SHORT STEM STOPPERS ARE SPECIALLY DESIGNED TO ENSURE TIGHTNESS AND TO BE USED IN BOTTLES WITH REDUCED EXPANSION CHAMBERS.
bIODEGRADABILITY AC AS AN ACCELERATOR OF BIODEGRADABILITY PROCESSES
ACTIVATED CHARCOAL (AC) IS AN INERT MATERIAL IN NATURE, WHICH ACTS AS AN ACCELERATOR IN DECOMPOSITION, UNDER CONDITIONS OF ANAEROBIC COMPOSTABILITY.

ACTIVATED CHARCOAL HAS BEEN SHOWN TO ACCELERATE THE BIODEGRADATION PROCESS.

ASIT IS SUCH A POROUS MATERIAL, IT CAPTURES OXYGEN AND OTHER GASES AS WELL AS WATER AND MICROORGANISMS WHICH PROMOTES fragmentation and accelerate the degradation of the STOPPER.
activated charcoal can have a surface area of more than $500 \mathrm{M}^{2} / \mathrm{G}$, WITH VALUES OF $1,000 \mathrm{M}^{2} / \mathrm{G}$ BEING EASILY ACHIEVABLE. SOME ACTIVATED CHARCOALS CAN ACHIEVE VALUES OF OVER 2,500
$M^{2} / G$. BY WAY OF COMPARISON, A TENNIS COURT IS ABOUT $260 \mathrm{M}^{2}$.

# Corkcoal 

## BECAUSE OF ORGANOLEPTIC PROPERTIES

SMELL \& TASTE
BETTER ORGANOLEPTIC PERFORMANCE (NEUTRAL)

COMPARED TO OTHER CORK STOPPERS, CORKCOAL OFFERS A LOWER TRANSFER OF AROMAS AND FLAVOURS TO THE PRODUCT

IN THE SENSORY TEST, ALL THE AROMAS AND FLAVOURS DETECTED CORRESPOND TO THE PLANT FAMILY AND THE INTENSITY OF THE AROMA IS LESS THAN THAT FOUND IN A COMMON CORK.
THE SENSORY TEST RESULTS COMPLY WITH THE SPECIFICATIONS OF THE INTERNATIONAL STANDARD ISO 22308(CORK STOPPERS SENSORY ANALYSIS) WHICH IS EQUIVALENT TO THE UNE 56928:2004 STANDARD.

ACCORDING TO THE INTERNAL LABORATORY PROTOCOL PNTM 7.5-21, THE RESULTS OF THE HALOANIIOLES CONCENTRATION OF THE
CORKCOAL SAMPLES ARE BELOW THE DETECTION LIMIT.

CORK CENTER LABORATORY
FUNDACIÓ INSTITUT CATALÁ DEL SURO (CATALAN CORK INSTITUTE FOUNDATION)

# Corkcoal 

## BECAUSE OF FORMATS

| STORY-TELLING | ACTIVATED CHARCOAL AND CARBON ARE KEY IN THE PRODUCTION PROCESSES OF WINES AND SPIRITS | EXAMPLES: TOASTED BARRELS IN THE PRODUCTION AND FINISHING OF SIRITS; THE FILTERING OF WINES AND SPIRITS TO ACHIEVE MAXIMUM CLARIIICATION. |
| :---: | :---: | :---: |
|  | THE DIRECT VISUAL ASSOCIATION OF CORK CHARCOAL, ENHANCES THE STORY-TELLING OF THE PRODUCT. |  |
| APPEARANCE \& EVIDENCE | TWO MATERIALS FROM NATURAL \& RENEWABLE SOURCES WORKING TOGETHER <br> ... AND YES! YOU CAN SEE THE ACTIVATED CHARCOAL MIXED WITH THE MICROGRANULATED CORK. WE DON'T WANT TO HIDE IT, QUITE THE OPPOSITE: WE WANT TO SHOW IT OFF JUST AS IT DESERVES. | WE USE AGTVVATED CHARCOAL OF VARIOUS GRANULOMETRES, AS <br>  MORE NATURAL). OUR ACTV ATED CHARCOAL IS OF PLANT ORIGII AND COMES RROM RENEWABLE SOURCES. |
| DESIGN | HONEST DESIGNS THAT SHOW THEMSELVES AS THEY ARE | CORKCOAL STOPPRES STAND OUT FOR THE NATURAL QUALTIES THE MATERAL. WE WANT TO MAKE THE QUALTIIES OF CORKCOAL VIIILE <br> WE THEREFORE CREATE DESIGNS IN WHICH THE PROMINENCE OF THE MATERIAL PREVAILS OVER THE FORM. |
|  | cORKCOAL STOPPERS ARE MADE FROM COMPREHENSIVE AND CONTEMPORARY GEOMETRIES SO THAT THEY CAN BE USED IN ANY PRODUCT. IT IS THE MATERIAL THAT MAKES THEM UNIQUE. |  |

## the Corkcoal collection





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\begin{aligned}
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& \text { UNIQUE DESIGN OF THE } \\
& \text { RUDE BOTTLES }
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## FAQS

## YOUR CURIOSITY DRIVES US FORWARD

## FAQSSUSTAINABILITY

## Why do you add activated charcoal to the cork?

Due to its properties, the pores of the activated charcoal (AC) trap the unwanted substances (flavours and smells) of the cork, even neutralising the TCA. We reduce traditional chemical processes obtaining more sustainable stoppers.

## Does using AC reduce the carbon footprint of a cork stopper?

Yes, the carbon footprint attributable to $A C$ is much smaller than the carbon footprint of the industrial processes we save by using it.

## Do you use glue in assemblies with wood?

No, the Corkcoal monobloc design of the T-top stoppers does not require assembly. And in the designs assembled with wood, the insertion and fixation of the dowel is carried out by pressure and without the use of glue.

## Does a Corkcoal stopper biodegrade faster than a standard one?

Yes, the properties of AC are known to accelerate biodegradation in combination with other materials. Oxygen, water and the microorganisms needed for this process accumulate in its pores.

## Are Corkcoal stoppers more sustainable?

Yes, we reduce waste and scrap, we reduce the chemicals and CO2 of several processes, we do not use glue in assembly and, furthermore, we have designed them with short stems to optimise the use of material.

## FAQS ORGANOLEPTIC \& DESIGN

## Does Corkcoal have better organoleptic performance?

Yes. This is confirmed by research carried out by the Cork Center Laboratory from the Institut Català del Suro (Catalan Cork Institute). With only plant aromas in quantities that are below the detection levels of the standard.

## Does the use of AC eliminate TCA from cork?

Yes, it traps and neutralises it completely, to levels that are not measurable by laboratories. This is an unprecedented achievement that has historically been problematic and inherent in cork as an organic material.

## Does the use of AC improve the organoleptic performance of cork?

Due to its properties, the pores of the AC naturally trap all the unwanted substances (flavours and smells) of the cork, even neutralising the TCA (it is the best stopper on the market in this respect).

## Why are some designs monobloc?

Monobloc designs are more efficient and sustainable, require just one single industrial transformation process and can be recycled more easily as the separation of their components is not necessary.

## Does Corkcoal help me build the story-telling of my product?

Yes, in many cases, the use of activated charcoal or other carbon derivatives is key in the production of wines and spirits (example: the carbonisation of the wood inside barrels). The visual association of cork with the charcoal reinforces and highlights the story.

## AND IN 2023.

## THE CORKCOAL FAMILY WITH WOOD





