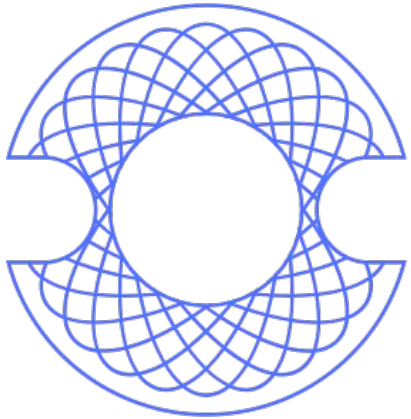


COREFILTERS

Core Gases Discharge Filters

Our Company

- Our company was established in 1999 in İzmir, Turkey by Serdar Yılmaz.
- We own our production site, and we are a company that serves its customers with 80 machines in a total area of 800 m^2 with daily 5.000 meter production capacity.
- All the products are produced in our company with German origin *Willhelm Steeger* and *Hacoba* brand machines.
- In addition to cord and lace type productions containing technical braids for different sectors, we have included the **Core Gases Discharge Filters** in our production portfolio for the last 4 years.

TÜRK PATENT

TÜRK PATENT VE MARKA KURUMU

FAYDALI MODEL BELGESİ

No: TR 2019 14365 Y

Buluş Başlığı

Döküm Maça Gazları Tahliye Filtresi

Faydalı Model Sahibi

SERDAR YILMAZ

Bu belge, 6769 sayılı Sınai Mülkiyet Kanunu kapsamında 21/09/2019 tarihinden itibaren 10 yıl süre ile korunmak üzere 21/05/2021 tarihinde verilmiştir.

Prof. Dr. Habip ASAN
Başkan

Patent from TURKISH PATENT AND TRADEMARK OFFICE

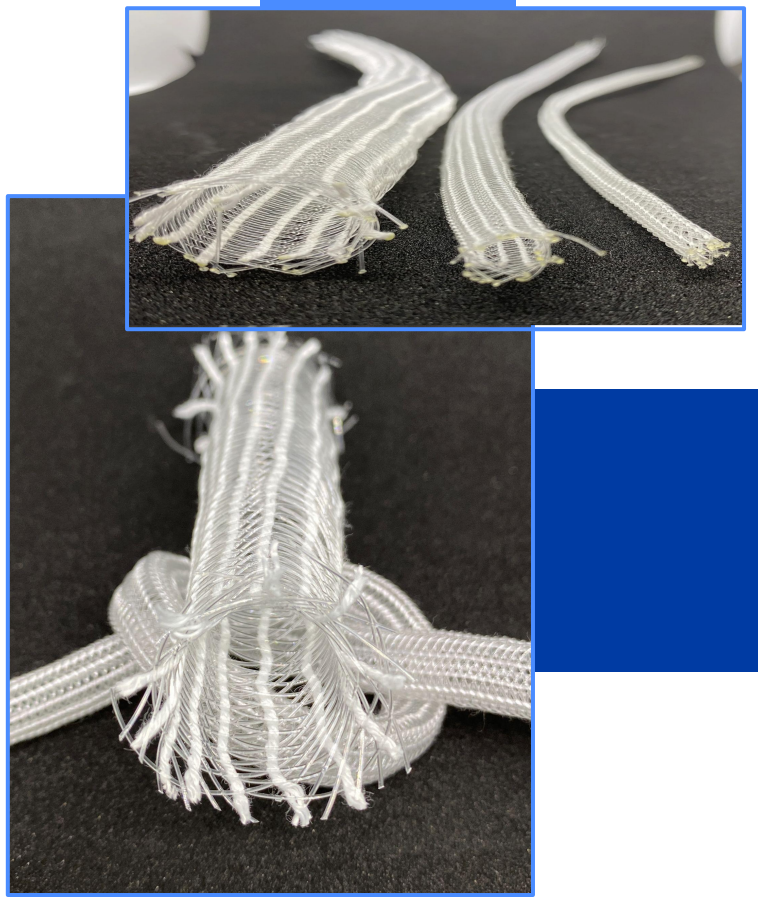
All the rights of this product **"Core Gases Discharge Filter"** belong to our company with the official document (click here)

Innovational Material

Core Gases Discharge Filters

What is our Product ?

- The Core Gases Discharge Filter is a versatile tubular product designed to efficiently remove harmful gases from the casting material during the casting process, thereby enabling the production of high-strength castings.
- This flexible filter can be effectively positioned throughout the melt in various round and shaped core applications, including engine block and pump production. Its adaptability allows for optimal gas evacuation, ensuring the integrity and quality of the castings.

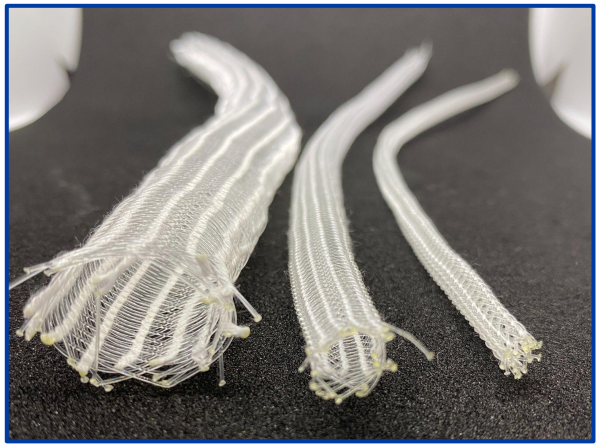


Problem

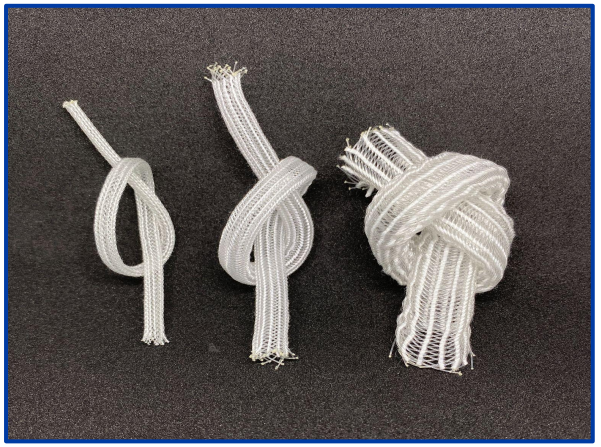
- Incomplete gas evacuation during the casting process can result in the formation of **undesirable pores and voids** within the casting material. This phenomenon significantly compromises the strength of the castings, while also leading to an uneven and **rough casting surface.**
- The presence of gas voids has a detrimental impact on the overall properties of the casting material, undermining its structural integrity and quality.

Our Solution

- Our innovative product offers complete **gas evacuation** from both the casting mold and the melt during the casting process. This capability allows for the production of **high-quality castings with superior strength and extended service life**.
- At the core of our solution is the knitted perforated evacuation filter, which is the focal point of our invention. This unique filter design not only ensures efficient gas discharge but also helps **prevent core breakage caused by heat during casting**.

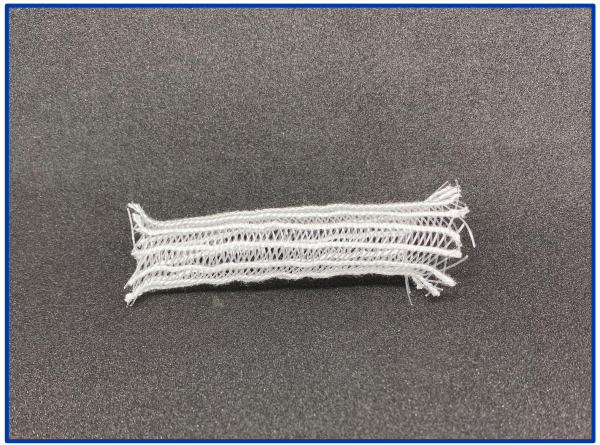


FLEXIBLE

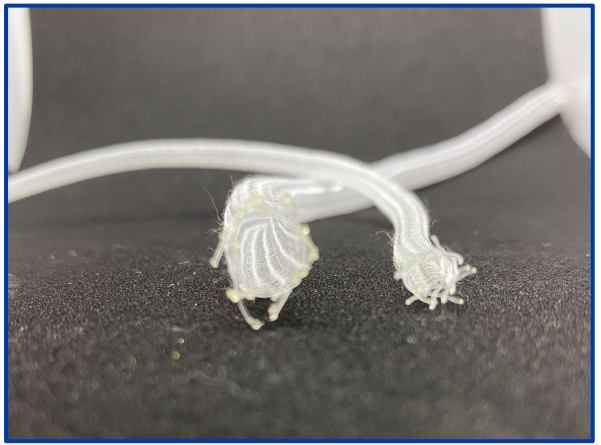


LIGHTWEIGHT

EASY TO USE

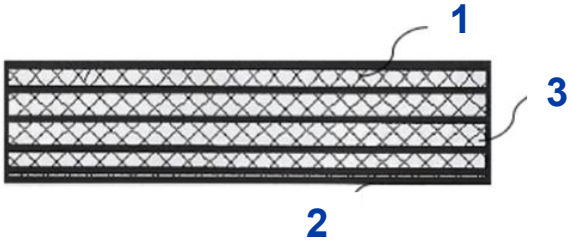


ECONOMICAL



Technical Details

- Our product features a specially designed **pipe** (5) with a **knit structure** (4) comprising multiple **polypropylene or nylon lines** (1) as warp threads and numerous **polyester weft threads** (2) wrapped around the warp threads. The knit structure incorporates **perforated pores** (3) for optimal performance.
- This unique composition ensures the durability and functionality of the pipe, enabling efficient gas evacuation during the casting process.



1. Polypropylene or Nylon line

2. Spun(Polyester) Thread

3. Perforated Pore

4. Knit Structure

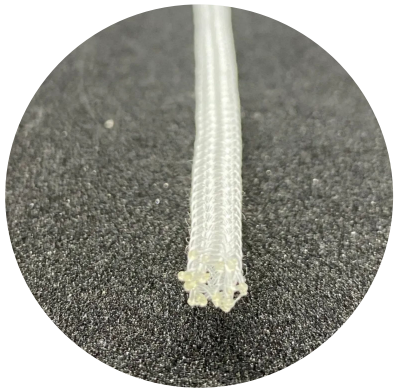
5. Pipe structure

Products & Delivery

- Product shipment is on a box basis, and the size of the box varies according to the diameter.
- Core filters with a diameter of 20 mm and a diameter of 10 mm are the most commonly used thicknesses and are sent as 500 meters in the box content.

20 mm

10 mm



5 mm

We can produce filters with different diameter and length according to your needs.

Usage

Easy 3 steps to use the product:

1. Cut the desired amount (1-2 meter) from the end of the hose with scissors.

2. Place it into the core to be applied before the sandblasting or before the styrofoam application.

3. Sandblasting and styrofoaming is done. One or both ends of the core hose should come into contact with air so that gas escape can be achieved.

- The filter is **disposable**.
- Companies can apply this filter in the problematic areas of gas outlet.
- This product is **applicable in any type of core.**

STEP 1

- Cut the desired amount (1-2 meter) from the end of the hose with scissors.

STEP 2

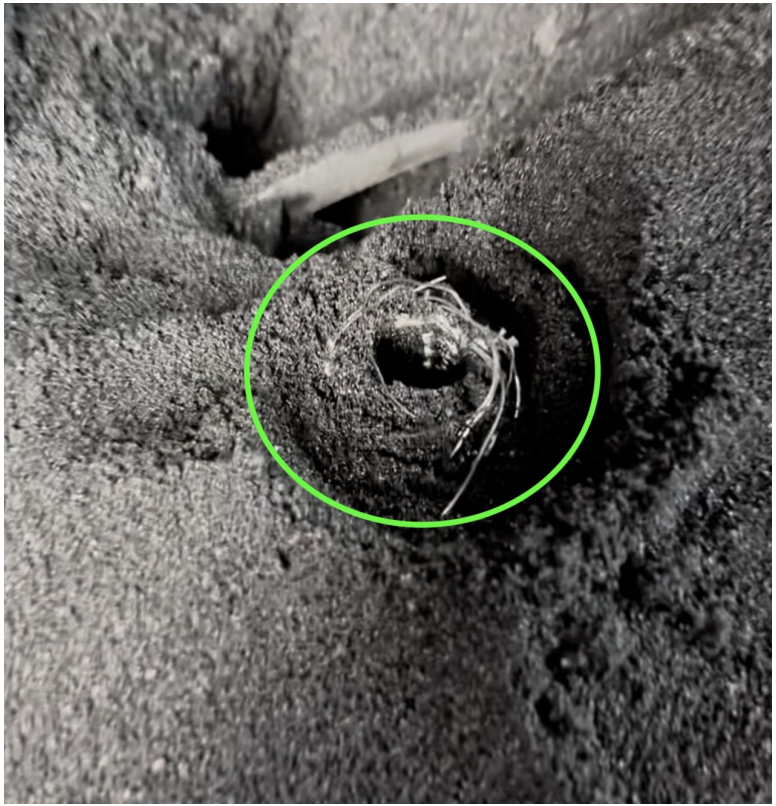
- Place it into the core to be applied before the sandblasting or before the styrofoam application in **any form you need**.

Vertical formation

Circular formation

STEP 3

- One or both ends of the core hose should come into contact with air so that **gas escape** can be achieved. Sandblasting is done and normal process continues.



Our Customers

http://www.dirinlerdokum.com/en/

http://www.akdas.com.tr/en/

https://www.borancelik.com.tr/en/

http://silvansanayi.com/en

For more, please visit this link.

Reach us for more !

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