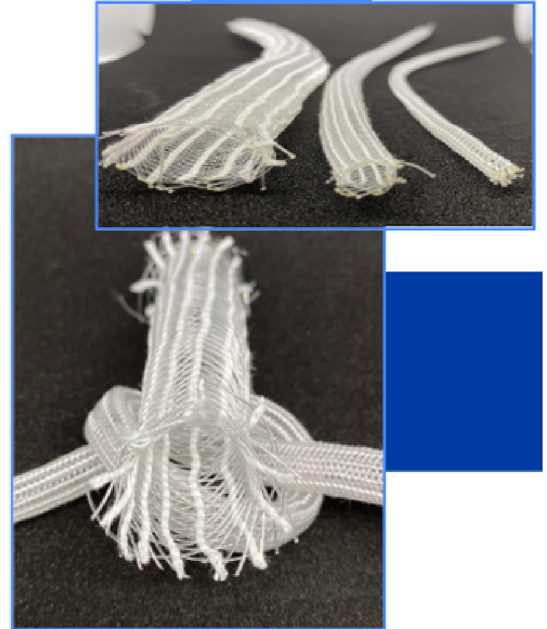


1 PRODUCT COMPOSITION

- 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.



2 PRODUCT MATERIALS

- Our product consists of a knitting structure (4) made of numerous Polyester threads (2) wrapped around the warp thread with nylon or polypropylene line (1) (due to quality needs). This structure (4) has multiple perforated pores (5). During gas discharge, the woven structure contracts due to the hot gas. As a result, it hardens and keeps the air outlet open at all times.

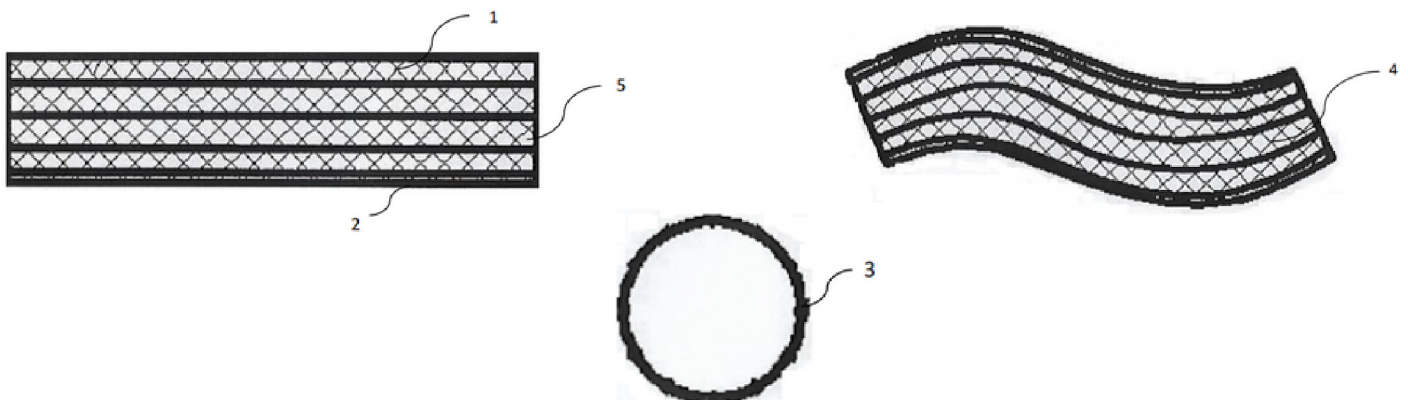
1- Nylon / Polypropylen Line

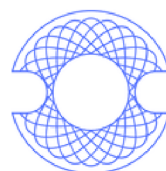
2- Polyester Yarn

3- Thickness

4- Knitting Structure

5- Perforated pore





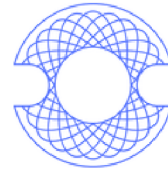
3 PRODUCT TYPES

NO.	DESCRIPTION	MM (DIAMETER)	METER / 1 BOX	LINE MATERIAL
1.	4 MM CGDF	4	2000	Nylon / Polypropylen
2.	5 MM CGDF	5	2000	Nylon / Polypropylen
3.	6 MM CGDF	6	2000	Nylon / Polypropylen
4.	8 MM CGDF	8	1000	Nylon / Polypropylen
5.	10 MM CGDF	10	1000	Polypropylen
6.	15 MM CGDF	15	500	Polypropylen
7.	20 MM CGDF	20	500	Polypropylen

- CGDF = Core Gases Discharge Filter
- 1 BOX SIZE = 40 cm * 60 cm * 40 cm
- Diameters may change by +-7% during production.
- Line Materials are specified due to common customer needs.

4 PRODUCT PERFORMANCE

- By providing complete discharge of both the gases present in the casting mold and the gases within the melt during casting, it becomes possible to produce high-strength, long-lasting, and higher-quality casting materials. With **CGDF**, fractures in the casting due to heat during casting can also be prevented. In order to eliminate the technical problems caused by the incomplete discharge of gas within the casting material, a discharge filter consisting of woven perforated pipes that can be used instead of iron rods has been developed. **CGDF** has a flexible structure, allowing it to reach every part within the melt in applications such as engine blocks and pump production, which involve round and shaped molds. The casting process can be completed in a shorter time without reducing the casting temperature. By completely eliminating the air within the casting material, technical issues arising from gases within the casting material have been resolved.



5 PRODUCT ADVANTAGES

METRIC	Using CGDF
Quality	It prevents the pores and holes in the casting material, evacuates gases that significantly weaken the strength of the cast material, Casting surface becomes smoother.
Time	The casting process is completed in a shorter time without reducing the casting temperature. And it prevents wasted time of drilling holes.
Flexibility	The filter has a flexible structure, In round and shaped core applications such as engine block, pump production, each location can be reached.
Cost	It prevents the loss caused by poor quality products and reduces the effort spent on gas evacuation.

5 PRODUCT USAGE

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

- [Refer to the Corefilters Presentation or Implementation Videos for more details.](#)