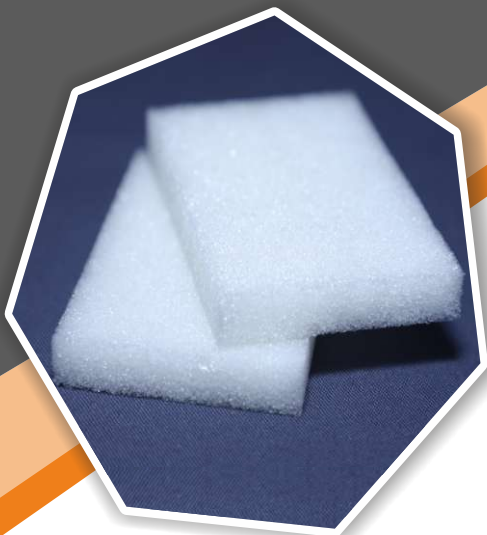


## Surgeon's True Assistant for Haemostasis



**HEMOSPONGE<sup>®</sup>**  
Accelerates Natural Clotting Process

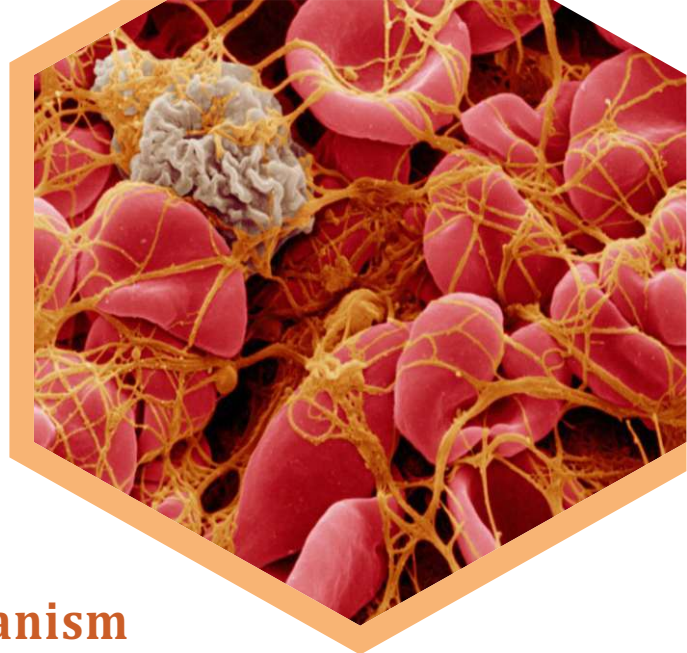
## HEMOSPONGE (Absorbable Gelatin Sponge USP)

The HEMOSPONGE is sterile, gelatin based sponge intended for direct application to bleeding surfaces as haemostatic.

HEMOSPONGE is considered as first line of haemostatic, used to stop oozing blood from the bleeding surfaces where binding, suturing, cauterizing and other conventional method of hemostasis is either ineffective, not possible to use or too time consuming. The product can be left in situ or stoma or cavities to provide long term haemostasis effect. Product is also considered as most effective packing material which supports healing tissues.

### 3D Matrix Structure

HEMOSPONGE have 3D matrix structure with UNIFORM POROSITY which gives product a high mechanical strength. 3D matrix absorbs the fluid faster than other absorbing material in category, provides high surface area for platelets to get activated and holds the clotted blood firmly

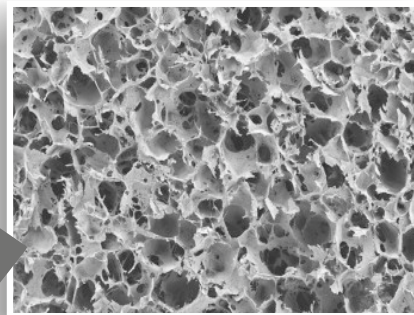


### Mechanism

HEMOSPONGE accelerates the natural clotting process by providing the surface to the platelets. The matrix of HEMOSPONGE works as external factor in activating clotting cascade. The moment, platelets of oozing blood comes in contact with matrix of HEMOSPONGE, it get self-activated to release series of blood clotting factors, accelerating natural clotting process

### Fast and Effective

HEMOSPONGE stops all kinds of oozing blood (capillary, parenchymal or arteriovenous) in 2-4 minutes



### Highly Absorbent

Matrix structure of HEMOSPONGE can hold around 40 - 45 times of its own weight of blood/body fluids within its structure, far higher than any non matrix (cotton) based products. In other words, 1 gram of sponge can absorb and holds 40 to 45 grams of blood or fluids within its matrix.

## Resorbable /Degradable



- HEMOSPONGE can be left in situ/external cavities after surgery.
- Metabolized slowly by proteolytic enzymes
- Completely removed from the site of application within 3-4 weeks
- When applied to bleeding mucosal cavities, it liquifies in 2-5 days.
- Does not induce any fibrosis or tissue reaction
- Does not interfere natural healing process of tissue.
- Metabolites are excreted in urine and feces and are non-toxic.

## Pure and Safe



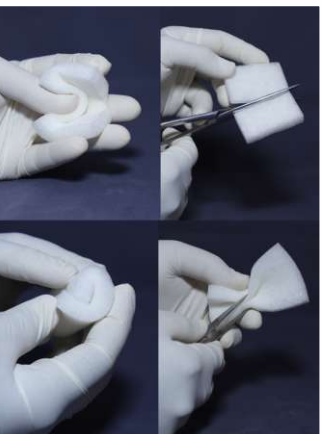
- HEMOSPONGE is made up of 100% pharmaceutical grade extra pure GELATIN ONLY (Hydrolysate of tissue collagen protein)

## Biocompatible



- Non-toxic, non-allergic and 100% biocompatible
- Complies biocompatibility standards - ISO 10993 requirements (tested in NABL accredited labs)

## Pliable

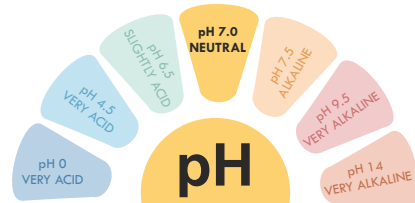


- Product can be mould, rolled or easily cut to fit any bleeding site without compromising physical property. The product still maintains the 3D matrix structure and exhibits haemostatic effect even after physical compression for longer period.

## Gamma Sterile - Ready to Use



- Gamma sterile - Destroys only microorganism - no effect on physical properties of matrix
- No need to sterilize before use.



## Inert

- Product have neutral pH
- Can be soaked without any chemical interaction with wide variety of pharmaceuticals/biologics commonly used during surgical procedures (like Thrombin, Antibiotics, Analgesics,) for an advanced effect.



## Use with Thrombin

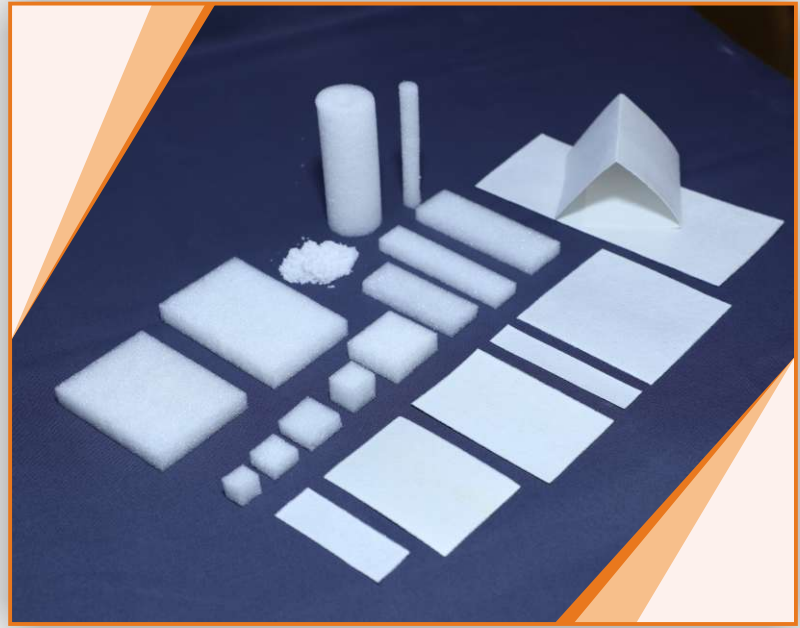
- Although not necessary, haemostatic effect of HEMOSPONGE can be enhanced by soaking the sponge with thrombin solution.



## HEMOSPONGE Variants

HEMOSPONGE is available in following major sizes to effectively cover hemostasis in all types of surgeries

1. REGULAR
2. CUBES
3. TAMPONS
4. STRIPS
5. FILMS
6. POWDER
7. SPECIAL SIZES



| Category       | Variant Name  | Product Code | Sponge Size (mm) | Unit of Sale |
|----------------|---|--------------|------------------|--------------|
| <b>Regular</b> | Standard  | GL851        | 80 x 50 x 10     | 2 Pcs/Pack   |
|                | Export  | GL751        | 70 x 50 x 10     | 2 Pcs/Pack   |
| <b>Cubes</b>   | Dental SL   | GL111        | 10 x 10 x 10     | 32 Pcs/Pack  |
|                | ENT Size/ Dental XL   | GL202007     | 20 x 20 x 07     | 10 Pcs/Pack  |
|                | Dental M  | GL141407     | 14 x 14 x 07     | 10 Pcs/Pack  |
|                | Dental L  | GL151515     | 15 x 15 x 15     | 10 Pcs/Pack  |
|                | Dialys  | GL303010     | 30 x 30 x 10     | 10 Pcs/Pack  |
| <b>Tampons</b> | Anal/vaginal Tampon   | GL8030       | 80 x 30 (Dia.)   | 6 Pcs/Pack   |
|                | Anal/vaginal Tampon SL  | GL6030       | 60 x 30 (Dia.)   | 6 Pcs/Pack   |
|                | Nasal Tampon  | GL8010       | 80 x 10 (Dia.)   | 10 Pcs/Pack  |
| <b>Strips</b>  | Gynaec  | GL802507     | 80 x 25 x 07     | 10 Pcs/Pack  |
|                | Nasal   | GL801507     | 80 x 15 x 07     | 10 Pcs/Pack  |
| <b>Films</b>   | Special - 1   | GL805001     | 80 x 50 x 01     | 10 Pcs/pack  |
|                | Special - 2   | GL705001     | 70 x 50 x 01     | 10 Pcs/pack  |
|                | Film – 80   | GL80         | 80 x 25 x 01     | 12 Pcs/Pack  |
|                | Film – 120  | GL120        | 120 x 100 x 01   | 12 Pcs/Pack  |
|                | Film – 240  | GL240        | 240 x 120 x 01   | 12 Pcs/Pack  |
|                | Film – 200  | GL200        | 200 x 70 x 0.5   | 12 Pcs/Pack  |
| <b>Powder</b>  | Powder  | GL001        | 1 Gram           | 6 Pcs/Pack   |
| Special        | Size 12-7   | GL1207       | 60 x 20 x 07     | 10 Pcs/Pack  |
| Custom Size    | HEMOSPONGE is also available in many variants other than mentioned above as per need of physician, contact company consumer care for more details |              |                  |              |

## HEMOSPONGE *Regular Sizes*

- Rectangle shaped sponge with uniform porosity
- Can be cut, rolled or mould to desired shape to fit any oozing site
- Effective hemostatic in parenchymal bleeding of abdomino-thoracic and pelvic organ surgeries
  - Laparoscopic and open surgeries of stomach, intestine, liver, spleen, appendix etc
  - Open heart and thoracic surgeries
  - Ano-rectal, haemorrhoidal and hernial surgeries of abdomen
  - Nephrological surgeries
  - Prostatectomy
  - Gynaecological surgeries – C-section, Hysterectomy etc
  - Orthopaedic and trauma



## HEMOSPONGE *Anal/Vaginal Tampons*

- Cylindrically-shaped tampon with hollow region in centre.
- Shaped for specific use in haemorrhoidal and coloproctological surgeries to control mild and moderate bleeding
- Can be easily placed with help of proctoscope at the end of surgery
- Absorb and holds continuously oozing fluids and provides hemostasis for prolonged period
- Reduces tissue irritation and provides physical support to nearby tissue
  - Enhances patient comfort by reducing post-operative pain
    - Body heat and bacterial invasion fastens the dissolution of sponge, expelled easily within 1 to 2 days with patient's natural bowl movement
      - Cost effective and patient kinder haemostatic packing sponge
  - Effective hemostasis in transrectal prostate biopsy (Kohei Kobatake et al. 2015)





## HEMOSPONGE *Dental Cubes*

- Highly effective hemostatic-packing sponge to fill socket after dental extraction procedures
- 3D matrix structure – have high absorbability of the blood and better holding of blood clot than other packing material in market
- Neutral pH - Can be combined freely with any chemical, pharmaceutical or biologics for advanced effect
- Soak with Thrombin or Tranexamic acid for quick haemostasis

- Soak with antibiotic – for local antiseptic effect
- No need to remove after surgery – provides higher patient comfort and reduces secondary bleeding associated with removal of non absorbable packing material

- Liquifies in 24 – 48 hours and removed with salivation
- Socket size cubicle sponge – easily fit bleeding sites,
- Individual piece packing – no need to cut in most cases,
- Cost effective haemostatic sponge – 10-15 INR per patient maximum
- Non-toxic, non-scarring and 100% biocompatible material

## HEMOSPONGE *Powder*

- Highly effective hemostatic for the sites with uneven surface
- Mixed with saline and kneaded to form putty of desired consistency before application
- The putty has hemostatic effect and is applied directly to bleeding surface
- Supplied in double pack sterile jar
- Safe, effective and have many ADVANTAGES OVER CONVENTIONAL BONE WAX HEMOSTATIC
  - Cost effective,
  - Ease of application
  - Absence of potential complications
- Found effective to control sternal bleeding in cardiac surgery (Ragusa R et al. 2007).





## HEMOSPONGE *ENT Range*

- Small cube and strip size sponges to fit small cavities
- Widely accepted by ENT and Oro-dental surgeon as most effective haemostatic - packing material.
- Pliable and can be shaped into various forms with adequate mechanical properties to fit into small surgical cavities.
- Works as a scaffold to support growth of near-by tissue and fastens the healing process of ENT surgeries.
- Considered as most kinder packing material available in market
- 100% Absorbable - avoids patient discomfort associated with removal of non-absorbable packing material.
- Non-allergic, Biocompatible, Biodegradable and Absorbed/Degraded completely within 4–6 weeks via the action of various enzymes.
- SUPERIOR THAN PVA BASED SPONGE
  - No need to remove, no pain and bleeding
  - No patient discomfort and greater patient satisfaction with no adverse reactions
- Use in nasal surgeries - though gelatin based sponge is found to be most effective haemostatic and non toxic packing material after endoscopic sinus surgery (Cho Ks et al) and septoplasty (Kim SD et al), few research publications also suggest that any packing material coming into contact with sinus wall impairs its healing. The benefit of haemostatic packing in nasal septal surgery is unclear and product usage should be based on the surgeon's discretion and experience.



## HEMOSPONGE *Film*

- Useful for surgeries where large size of sponge is impossible to place i.e in laminectomy
- Designed for use in thoracic, ocular and neurosurgery.
- Available in various sizes with thickness ranging from 0.75 to 1.00 mm.
- Lack of blood supply and prolonged rate of degradation of film makes it ideal for use in ocular and cranial surgeries to reduce the adhesions of tissues

## About Company

We are manufacturer of Absorbable Gelatin Sponge USP with HEMOSPONGE brand. The company started its operation in 2016 at Surat, Gujarat, India. The facility has been established with long term vision to supply quality medical devices to domestic and international market. Manufacturing facility have well designed cleanrooms for production of sterile devices and also equipped with quality control/microbiological labs for quality check. We offer wide varieties of gelatin sponge to suit any surgical procedures.



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