

# SOLID GEL PAD

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**ULTRASOUND SOLID GEL PAD**





Korea's **first**  
and the **only**  
domestic  
manufacturer  
Solid Gel Pad

## Application Areas

1. The Field of Ultrasound Imaging - Diagnostic System – ‘Couplant’
2. Laser Treatment sector ( IPL Treatment Pads, etc.)
3. Laser Hair Removal Field
4. Mask Pack Sector (Beauty)
5. Other Special Areas of
  - Breast Cancer Diagnostic Special Ultrasonic Field
  - For Extracorporeal Shock Wave Therapy Pad
  - **Bladder Scanner Pad for measuring the amount of Urine**
  - Image diagnostic equipment for ophthalmology
  - Ultrasound in medicine dermatology scalp (alopecia Management)
  - **Wounded Care (Burn Injuries Treatment , Wound Treatment , etc. )**
  - Special Membrane etc.

Using a 3D ultrasound probe



( Bladder Scanner )



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## Others

1. In May 2013 the TUV-SUD Testing Laboratory conducted Biocompatibility Tests (biological safety test) on BLUEMTECH's Gel Pad and it passed the safety
  - ① Cytotoxicity (ISO 10993-5, GLP study),
  - ② Skin Irritation (ISO 10993-10, GLP study),
  - ③ Skin Sensitization (ISO 10993-10, GLP study) ]
2. U.S. FDA 510K (K 131905) completion of registration
3. CE certification from SGS
4. Exports to Japan in 2012 "for Image interpretation success cardiovascular surgery" SOLID GEL PAD
5. By acquiring the ISO 9001 and ISO 14001 certifications in April 2013
6. China CFDA registration completed

Ultrasound Couplant **General Field**

**SOLID GEL PAD**

[ WATERGEL, SONARPAD, ULTRASOUND GEL PAD, LASER GEL PAD ,Etc. ]

## 02. Features

### Features

#### 1. Convenient to use for diagnosis of any epidermal parts of body and treatment

- Excellent delivery of ultrasound compared to existing ultrasound gel, regardless of curves in human body, which are uneven ( Excellent Ultrasound Transmission)
- Examples of applied parts of body  
(applied to all the parts of body that existing liquid gel was applied to)
  - knee
  - elbow / calcaneus
  - dorsum of hand / instep
  - neck , cervical region
  - breast
  - nipple
  - bladder
  - carotid artery
  - head
  - testicles
  - thyroid
  - finger / toe / nose / ear / nails
  - Others : Superficial Structures and so on

#### 2. Unnecessariness of applying additional gel because of extended use in diagnosis and treatment: maintaining convenience and accuracy

- In the case of existing liquid gel, additional gel application must be required after passing certain time
  - Occurrence of problems in drying and evenly applying liquid gel ( Inaccurate Ultrasound Transmission )



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## 02. Features

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#### 3. Disposable products considering hygiene and safety without pollution and infection

- In the case of existing liquid gel, several people contact ultrasound probe → causing infection and pollution
  - contact pollution because of simultaneous use of ultrasound gel and probe to skin by several people
  - In the case of WATERGEL, contact pollution because of 1.5-2cm three-dimensional space between skin and ultrasound probeUnderlying prevention: preventing pollution and infection ==> hygienic
  - Wasting Gel Pad that you can throw away any time after use
- Stability that ultrasound probe does not directly contact the surface of human body

#### 4. Convenience in use, expansion of distribution and economic feasibility

- Expansion of using wasting Gel Pad considering convenience in use, effectiveness, and price policy
- The first in Korea and internationally competitive price

#### 5. Consistent and Even Ultrasound Transmission

- Convenient to maintain ultrasound probe's the same contact strength through Gel Pad
  - Use in gently contacting probe to Gel Pad
  - In the case of existing liquid gel, it is difficult to apply probe because of certain strength and pressure  
( When treating and diagnosing, it is difficult to examine the body with ultrasound in the same physical condition.)  
( In the case of existing liquid gel, Ultrasound Transmission is inaccurate according to the amount of applied gel, contact strength and pressure between ultrasound probe and skin.)

Ultrasound Couplant **General Field**



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## 02. Features

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#### 6. Available to produce various thickness and size of Gel Pads

- Easy to release various types of different thickness of Gel Pad for medical scanning condition and ultrasound stimulating treatment by disease and part of body

#### 7. Resolving unpleasantness of existing liquid gel

- Flexibility of well-bent Gel Pad with the feeling of soft cushion to patients
- Convenience and comfort that patients feel when diagnosing by using ultrasound scanning and treatment

#### 8. Our company's Gel Pad is the best to apply ultrasound phonophoresis method, which is a technology to promote TDS by using ultrasound. → It resolved many variables and difficulties when using existing liquid gel.

- Convenient to apply TDS technology consistently, safely and effectively

#### 9. How to use

- ① Remove the package.
- ② By using hands, gently separate Gel Pas from the container.
- ③ If you grab it too tightly, the Gel Pad can be damaged or destroyed.
- ④ Place Gel Pad lightly on the parts where you want to put.
- ⑤ Locate ultrasound probe gently on Gel Pad and operate the machine
- ⑥ **After diagnosing and treating, detach Gel Pad from skin and throw it away**