

Extreme Cushion Gel Liner

AKFR XX-3mm, 6mm



Covered by one or more of the following patents 6,454,812B1 6,552,109B1 6,867,253B1 7,344,568B2

The ALPS Extreme Liner (AKFR) provides the patient with an extremely comfortable and cushioning gel, the confidence of suction suspension, and fabric reinforcement for the ease of donning. The Extreme Liner has been designed with limited vertical stretch within the fabric to reduce any pistoning, and the fabric has a great amount of circumferential stretch to easily conform to the shape of the limb. The Fabric Reinforced Liner is an ideal interface for patients that have sensitive skin or bony prominences, and who cannot tolerate the negative pressure of a locking pin type of suspension system. The Extreme Liner gel material has been designed with a grip gel, to reduce the liner from sliding off the limb. It also allows for very simple donning since no lubricants are necessary. An 8 mm distal pad provides additional cushioning and comfort especially to patients with bony prominences at the distal end.

Sizing

Measure the stump circumference 6cm from the apex of the residual limb. Select a size inferior to the measured circumference.

Example 1: Measured circumference 24

Select size 24

Example 2: Measured circumference 27

Select size 26

Measurements taken 6cm from distal end.

Measured size (cm)	3mm	6mm
16 – 19 cm	AKFR 16-3	AKFR 16-6
20 - 23 cm	AKFR 20-3	AKFR 20-6
24 – 25cm	AKFR 24-3	AKFR 24-6
26 - 27 cm	AKFR 26-3	AKFR 26-6
28 - 31 cm	AKFR 28-3	AKFR 28-6
32 - 37 cm	AKFR 32-3	AKFR 32-6
38 – 43 cm	AKFR 38-3	AKFR 38-6
44 – 53 cm	AKFR 44-3	AKFR 44-6

Donning the Extreme Liner

Simply invert the liner, properly align the distal end, and don the liner. **Avoid petroleum jelly and other oil based lubricants,** as they will damage the Gel Liner. Although it is not necessary to apply any type of lubricant to the residual limb, a very small amount of ALPS PA604 lubricant may be used. **Talcum powder will form a scaling on the surface of the Liner.**

Remove any air pockets trapped between the residual limb and the liner.

For residual limb volume loss, sheaths and socks can be donned over the liner. If substantial volume has been lost, an ALPS skin reliever can be applied. Introduce the residual limb into the socket.

Storing the Extreme Liner

Always keep the foam insert in the liner when not in use. Lying flat for long periods may cause creases to develop.

Cleaning the Extreme Liner

Daily: Wash the liner and the residual limb with warm water and a neutral soap such as Alps Cleanser PD 595 or other hypoallergenic pH-balanced soap. Use a wash cloth, but do not rub, or scrub on the gel or you will damage the liner. Rinse Well. Wipe the liner dry with a clean, dry towel.

Weekly: Place a small amount of rubbing alcohol on a soft, clean cloth. Wipe the liner with the cloth thoroughly, wipe dry with a towel. **DO NOT** soak the liner in alcohol.

Occasionally: When the fabric gets very soiled, wash in washing machine using the cold cycle and fabric detergent, using the extra rinse cycle; then dry in a clothes dryer using the "fluff" cycle.

To remove a stain on the fabric side, use a cloth dampened in nail polish remover (acetone) and rub until clean. DO NOT SOAK IN ACETONE OR YOU WILL DISSOLVE THE GEL.

F.A.Q.'s

Question: My patient after using the liner for the first time complained of excessive perspiration.

Answer: Excessive perspiration is normal. It will gradually diminish over a period of two to six weeks. You may use an antiperspirant, but, if a rash develops, discontinue its use.

Question: Do I trim the liner above the knee or just above the socket edge or do I reflect the Liner over the socket to provide suspension?

Answer: You can do all of the above. We recommend that you trim 1" above the edge of the socket. To trim, you may use scissors, a pizza roller or a hot knife for plastics.(McMaster Carr's Part #2453A61, tel. 1-404-346-7000). If you choose to reflect the Liner over the socket, make sure that the edge of the socket is well taped or you will cut a hole in the liner. (In such a case, the warranty will not apply.)

Question: The liner stains very easily. Does this affect its performance?

Answer: No, performance is not affected. It is true that liner's pick up stains easily. If the stain cannot be removed with the procedures described above, it is recommended that the exposed portion of the liner be covered with a 14" to 16" piece of stockinet or with a high performance fabric cover available from Alps.

Question: I have experienced micro cracking of the surface.

Answer: Micro cracking can take place either when:

a) Petroleum products or organic oils (including human fatty acids) come in prolonged contact with the Liner. Some patients' skin may be oily enough to induce micro cracking. In such cases the life expectancy of the liner is greatly reduced. The prosthetist will decide if the liner is the appropriate liner for such patients.

b) The liner is stretched over 100% of its original dimension and kept in a stretched position.

Question: How do I prevent the pin from unscrewing from the liner's distal end?

Answer: Use loctite type thread locking compound 242 or equivalent.

WARRANTY

30-day satisfaction guaranteed, no questions asked
24 month warranty against manufactures defects if pair is issued to amputee
12 month warranty against manufactures defects if a single liner is issued to amputee

To obtain an Alps Return Authorization Number (RA#) call Alps Customer Service between the hours of 8 am and 5 pm and provide an Alps representative with the following information:

Customer ID # -- Invoice # -- Date of Invoice – Nature of Return

The RA# must be displayed on the exterior of the returned item box or it will be refused at the dock.

Warning: Specific exclusions from this warranty are: cuts, holes, any rips due to hits, scrapes, etc.



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