Ordering options

Braid

	Type	Size (in)	Length/(ft)
CD	B	3	10
CD	B	3	20
CD	B	3	82
CD	B	4	10
CD	B	4	20
CD	B	4	82
CD	B	5	10
CD	B	5	20
CD	B	5	82
CD	B	6	10
CD	B	6	20
CD	B	6	82
CD	B	7	10
CD	B	7	20
CD	B	7	82
CD	B	8	10
CD	B	8	20
CD	B	8	82
CD	B	10	10
CD	B	10	20
CD	B	10	82

Fabric: F

	Type	TPI*	Length/ (ft)
CD	F	350	3

Rope: R

	Type	Weight	Length/ (ft)
CD	R	3	25

10 ft = 3.048 meters
20 ft = 6.096 meters
82 ft = 24.9936 meters

To order use the code, the type, select the size and the length.
For example, a 20' roll of the 6" braid is item # CDB0620.
(B= Braid, R= Rope, F=Fabric)

Attention:

It is the responsibility of the practitioner and or technician to determine specific lay-ups, materials, amounts, and design based on the patient weight, activity level, and specific activities that is best for the patient. Any recommendation for lay-up methods are guidelines, not specifically designed for particular patients. Coyote Design® does not have knowledge of specific patient information or knowledge of customers specific fabrication techniques and capabilities.

EN | Instructions for Use
DE | Gebrauchsanweisung
FR | Notice d'utilisation
ES | Instrucciones para el uso
IT | Istruzioni per l'uso
NO | Bruksanvisning
DA | Brugsanvisning
SV | Bruksanvisning
EL | Οδηγίες Χρήσης
FI | Käyttöohjeet
NL | Gebruiksaanwijzing
PT | Instruções de Utilização
PL | Instrukcja użytkowania
CS | Návod k použití
TR | Kullanım Talimatları
RU | Инструкция по использованию
JA | 取扱説明書
ZH | 中文说明书
KO | 사용 설명서

www.coyote.us/instructions-coyotecomposite

Manufactured for Coyote®
419 N. Curtis Rd., Boise, Idaho 83706
(208) 429-0026 | www.coyote.us
Made in China

Coyote Composite

Basalt (volcanic rock) braided composite

	Type	Size (in)	Length/(ft)	meters
CD	B			

CDBSample.RevF.09272021

Harmonized Code:
6815.99.4070
Basalt Filament

Coyote® Composite (basalt braid) Lamination Instructions

Coyote® Composite, our proprietary braiding made from basalt is designed to be used with multiple materials to create composite lay-ups. Essentially taking the best characteristics of different materials to get the best functioning layups possible.

Starved lamination: note excessive fuzziness of the socket edge.

SATURATION

Because of the superior saturation of Coyote® Composite it is important to check for resin starvation. Run the vacuum at normal levels, but do monitor the process closely. Resin that takes too long to gel may pull back out of the material, starving the lamination. This will lead to fuzzy edges that are hard to finish.

To prevent the lamination from starving we recommend stringing the lamination to the desired level, and then heat the proximal end of the lamination to help the resin gel faster. This reduces the risk of too much resin being pulled from the lamination.

REINFORCEMENT

We recommend using carbon tape on the distal 3rd of sockets. This allows for extra rigidity without much additional weight. It can also remain embedded so that no carbon is exposed during sanding.

LAYERS

We designed the basalt braid to be a one to one replacement of carbon braid, meaning we do not typically use more than two layers of basalt braid in any lamination. However, the layers of other materials may change based on weight, activity level, and design. In some cases, more layers of basalt may be needed. In our testing, we also found nylon stockinette to offer a lot of the characteristics we are looking for without adding a great deal of weight or expense when compared to other commonly used materials.

WEIGHT

The weight of basalt and carbon are quite similar. However the increased saturation of basalt can result in more weight. It is key to pay attention to your lay-up to make sure you are doing the proper amount of stringing of the lamination to prevent starvation without creating more weight with unnecessary resin build-up.

LAY-UPS

While it seems everyone wants an exact recipe, it also seems no one wants to follow one. We have established a number of lay-up options for sockets and AFOs. If you would like more details, contact Coyote® at (208) 4290026 or via email at mailbox@coyotedesign.com

RESINS

Most prosthetic resins will work with the basalt, such as AME, or Polyester. Resin selection is more dependent upon other characteristics, such as heat moldability, or flexibility of the resin.

FINISHING

Basalt finishes similar to carbon, with slightly less abrasiveness but more of a tendency to fray, especially in cases of starvation. In some cases, wet sanding may be performed for optimal finish.

HEAT MOLDING/RELIEVING

The basalt fabric is extremely heat resistant, meaning it will not be damaged by even extreme heat. However, the lay-up itself may not tolerate heat relieving. We recommend using the basalt with a heat-moldable resin as well as with materials that are more compatible with heat relief.

INHALATION

Particles that are smaller than 6 microns are considered an inhalant risk. Basalt filament used in our basalt materials are 9 microns in size or larger.

Criscrossing strips of carbon tape

Composite on outside of lay-up

Composite on inside of lay-up

Composite rope being laid up