Sensomotoric insole concept for holistic and active care
Sensomotoric insole concept for holistic and active care

For many years, sensomotoric insoles have been successfully used to treat various foot misalignments, functional complaints and deviations from standard physiological gait.

With their specially shaped elements, the insoles exert targeted sensory stimuli on the sole of the foot, which cause motor reactions through muscle tension or relaxation. In this way, malpositions and imbalances can be corrected.

Sensomotoric insoles are used for children and adults.

* Example of use.
The NovaPED sensoCAD orthopaedic foot supports are made of EVA with a Shore A hardness of approx. 35°. On the bottom, the supports are reinforced with a film composite material about 0.8 mm thick, which varies in colour to distinguish the individual models from each other.

The supports have a uniform basic structure. The design of the individual elements varies depending on the model, to give differing intensity to different stimuli.

This provides the basis for a wide range of care opportunities.

The supports are available with a flat heel and a heel shell. If a shoe does not provide sufficient stability and heel guidance, we recommend using a support with a heel shell.

In line with a medical prescription, a healthcare technician processes the NovaPED sensoCAD orthopaedic foot support individually for a customer.
Novapedia sensoCAD neutral*

Product focus
The neutral model is used for a physiological foot with a neutral gait pattern, for example. It can also be used to balance contralateral care.

Material
The NovaPED sensoCAD orthopaedic foot supports are made of EVA with a Shore A hardness of 35°. On the bottom, they are reinforced with film material with orange-coloured pictograms.

Possible uses:
• Neutral gait (balancing insole)
• Normal foot (balancing insole)

Additionally:
• Sensory support

* In line with a medical prescription, this support can be suitably individually adjusted for a customer by a healthcare technician into a special construction, for example for a normal foot.
Heel element: lateral

Insole with heel cup for improved heel guidance and stability

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Product focus
An insufficiently active M. tibialis posterior leads, among other things, to a skew foot, fallen arches or flat feet. In order to support the active lifting of the heel, the medial heel element can be used to give a corresponding impulse to the muscle.

Material
The supports in the NovaPED sensoCAD series are made of EVA with a Shore A hardness of 35°. On the bottom, the supports are reinforced with a film composite material. The NovaPED sensoCAD planovalgus insoles are marked with green pictograms.

Possible uses:
- Externally rotated gait
- Skew foot
- Fallen arches
- Flat feet

Additionally:
- Valgus leg axis
- Achilles tendon complaints
- Knee pain, e.g. runner’s knee, jumper’s knee
- Hallux valgus

* In line with a medical prescription, this support can be suitably individually adjusted for a customer by a healthcare technician into a special construction, for example for a skew-splay foot.
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Novaped sensoCAD adductus*

Product focus
If the effectiveness of the M. peroneus longus is weakened, it can bring about changes such as pigeon toes. Here, the lateral heel element can lead to activation of the muscle, to compensate for the existing muscle imbalance and restore the physiological foot shape.

Material
EVA with a Shore A hardness of 35° is the basic material of the NovaPED sensoCAD orthopaedic foot supports. The film composite material with yellow pictograms reinforces the bottom.

Possible uses:
• Internally rotated gait
• Pigeon toes
• Previously treated club foot

Additionally:
• Varus leg axis
• Achilles tendon complaints
• Knee pain, e.g. runner’s knee, jumper’s knee

* In line with a medical prescription, this support can be suitably individually adjusted for a customer by a healthcare technician into a special construction, for example for pigeon toes.
Insole with heel cup for improved heel guidance and stability

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**Product focus**

If the small foot muscles are insufficiently active, high arches are encouraged. To counteract this, stimulus-providing toe and midfoot elements can be positioned on the foot.

**Material**

The NovaPED sensoCAD models are made of EVA with a Shore A hardness of 35°. A film composite material with blue pictograms is fixed to the bottom to reinforce the models.

**Possible use:**

- High arches

**Additionally:**

- Achilles tendon complaints
- Plantar fasciitis

* In line with a medical prescription, this support can be suitably individually adjusted for a customer by a healthcare technician into a special construction, for example for high arches.
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Novaped sensoCAD equinus*

Product focus
Neuromuscular diseases or neurological disorders are a possible cause of increased muscle tone of M. gastrocnemius, which may cause pes equinus or walking on tiptoe. The toe element and the midfoot element help to reduce the increased muscle tension. This can put the foot back in a physiological position and make heel contact possible.

Material
The NovaPED sensoCAD orthopaedic foot supports are made of EVA with a Shore A hardness of 35° and reinforced with film material with red pictograms on the bottom.

Possible uses:
- Walking on tiptoe
- Pes equinus

Additionally:
- Achilles tendon complaints

* In line with a medical prescription, this support can be suitably individually adjusted for a customer by a healthcare technician into a special construction, for example for pes equinus.
Heel element: raised laterally

Insole with heel cup for improved heel guidance and stability

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Customisation elements

The NovaPED sensoCAD orthopaedic foot supports are processed individually for each customer by a specialist. The orthopaedic foot supports can, for example, be specially adjusted to a customer and their footwear by grinding.

Further adjustments are made possible by the NovaPED sensoCAD elements, in order to amplify stimulus on the foot in a targeted way. Targeted individual areas can be raised with the selective raising elements. The strip element is used for a flat adjustment.

These elements are simply welded to the bottom of the supports, without adhesive, and have a thickness of approx. 3 mm and a Shore A hardness of 30°.

Our add-on parts for S90 orthopaedic foot supports offer additional customisation options, e.g. heel raising. Detailed information can be found in our NovaPED S90 elements catalogue or on www.schein.de

<table>
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Templates

Additional help is provided by the optionally available NovaPED sensoCAD templates. On the one hand, they simplify positioning of the NovaPED sensoCAD elements, and on the other, the integration of the supports into the shoe.

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Cover materials

For increased comfort, we recommend the NovaPED sensoCAD cover material.

A PiGreco cover, lined with 1 mm Multiform 30° Shore A.

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