

PNEUMATIC SHOES

The pneumatic shoes were designed for the protection against anti-personnel mines. This particular type of mine is designed to explode when the pressure exerted upon it is above a threshold in the range of 0,1 to 0,2 daN / cm². This threshold is lower than the pressure on the ground exerted by an average adult walking across a mine field.

The pneumatic shoes concept is based on drastically increasing the surface area of the terrain where the body weight will be applied, to attain pressure on the ground significantly below triggering threshold.

The principle of the pneumatic shoes linked air-cushions ensures that the pressure is kept constant throughout all parts of the cushion. Thanks to an air flow between the linked cushions, the pneumatic shoes conform to the configuration of the ground, while continuing to maintain uniform pressure.



The sandal is made from a reinforced plastic surface. The plastic surface is attached to a canvas and nylon fabric envelope. This flexible envelope contains 5 compartments, each of which contains one air cushion. These cushions are connected to each other via a connecting tube and a flexible manifold. The upper part of the plastic surface is equipped with special straps that harness the shoe to the sandal. In addition, it has a rubber tube with an oral inflation valve and an emergency inflation

mechanism made of a manual inflator grip attached to a compact CO2 cylinder (as an option).

The pneumatic shoes can be used in all types of terrain without loss of efficiency. They maintain maximum safety and reliability on various surfaces from sand to rocky terrain and from mud to vegetated areas.

The pneumatic shoes are supplied with individual carrying bag.

TECHNICAL DATA

Size: 35 x 70 x 13 cm

Weight: 2,5 Kg

Designed to carry up to 150 kg (333 pounds) on each sandal

CO 2 cartridge: 38 gr (option)

Pressure relief valve: 1,8 PSI