



MCS

International GmbH

ALL-COMPOSITE

for breathing apparatus
the lightest solution

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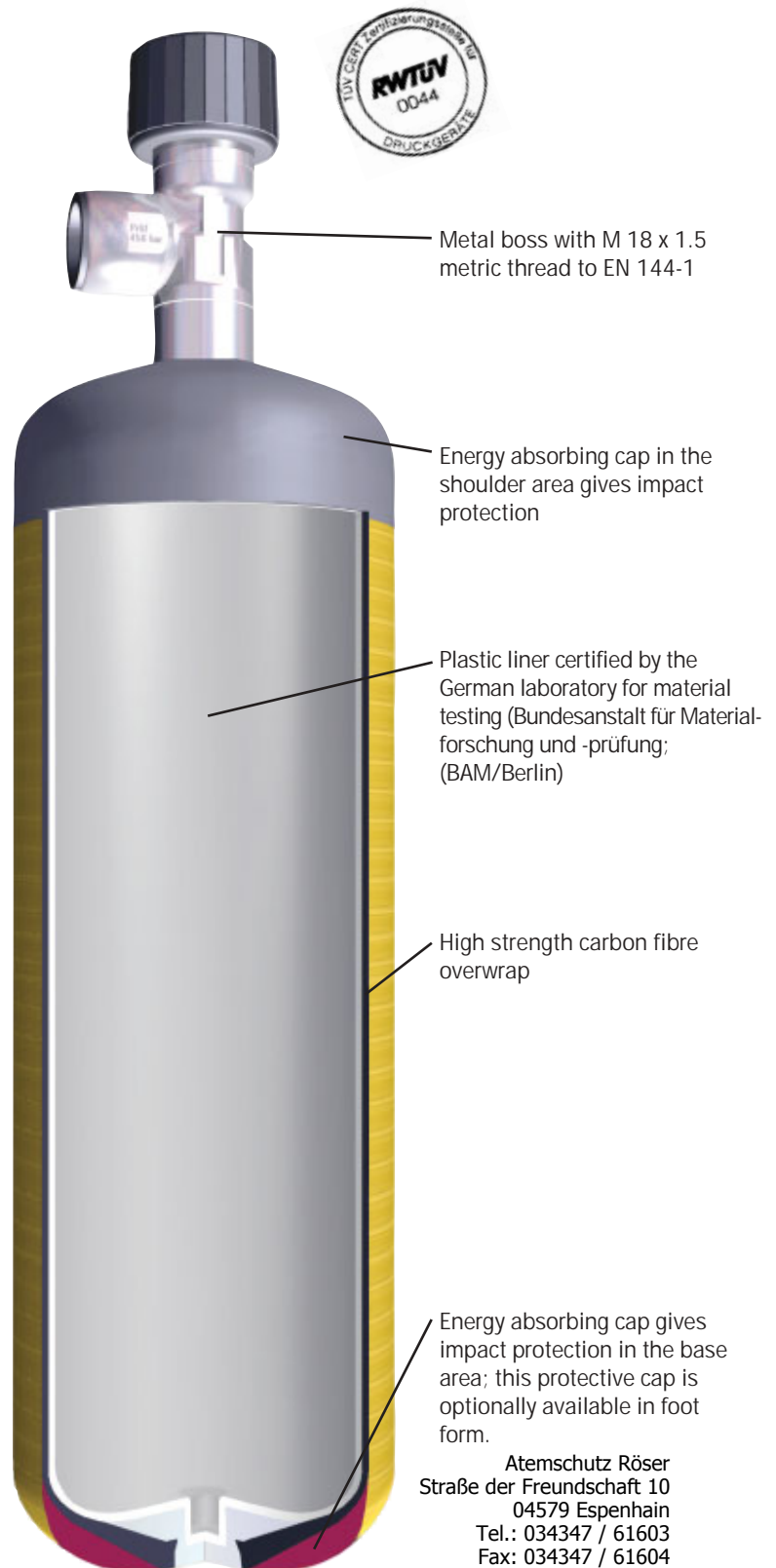
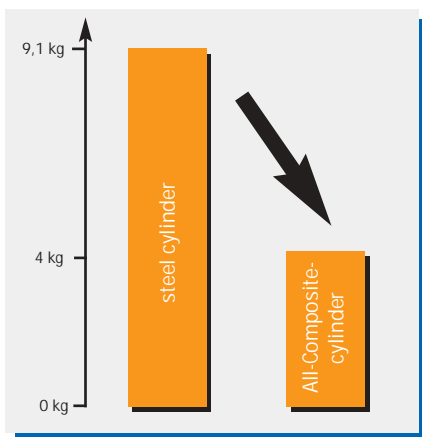
All-composite for breathing apparatus

55% less weight

As the leading manufacturer of cylinders and pressure vessels in Europe, **mcs International GmbH** pursues innovative material and manufacturing technologies. The patented combination of fibre material and plastic liner results in a considerable weight reduction of 55% compared to a conventional 300/450 bar steel cylinder designed to EEC Directive.

A 6.8 l 300/450 bar full composite cylinder weighs only 3.6 kg. In addition, with reference to the weight of a conventional steel cylinder, 120% more breathing air can be transported.

Our products are certified to the type approval Directive 97/23/EEC. (PED and CE sign)



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Best performance

The most significant advantages of the **mcs International GmbH** all-composite cylinder are

- lowest weight at highest pressure
- plastic liner ensures complete exclusion of corrosion
- maximum carrying comfort
- patented impact protection for shoulder and base
- high fatigue resistance
- high load-bearing capacity with burst pressures averaging 1100 bar

Highest safety to EN 12 245

The safety of this innovative all-composite cylinder has been proven under extreme conditions by tests and trials carried out within the type approval procedure according to the latest ISO and CEN Standard Drafts. Fire, climate chamber, drop and bullet tests document the safety reserves of this cylinder.

Additionally a simple hydraulic pressure test suffices for periodic retesting. It is not necessary

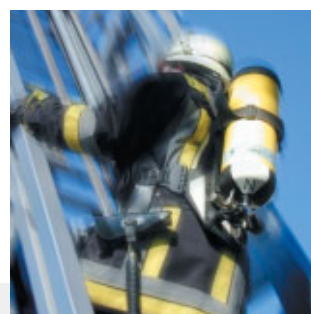
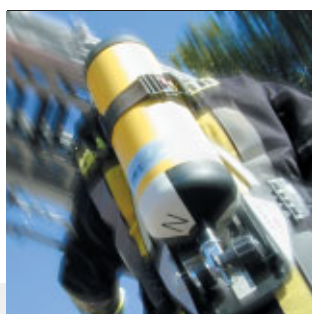
to conduct the technically extensive and costly water jacket test on **mcs International GmbH** all-composite cylinders.

Comfortable to wear

The combination of compact design and very light weight gives better freedom of head and body movement to the wearer. This provides the fireman with additional safety as well as increased carrying comfort.

Product range

volume (l)	external diameter (mm)	length (mm)	weight (kg)
4,0	133	464	2,2
4,7	133	529	2,5
6,0	157,4	502	3,1
6,8	157,4	556	3,6
9,0	176	565	4,3



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