

PROPERATOR

# High Visibility – EN 20471:2013 Class 3

CE

## DESCRIPTION

The clothes are made of a 3-layer functional material which is CE certified for protection against High Pressure Cleaning and tested for typical hydraulic leaks. Furthermore, this series of clothing also is certified as High Visibility Personal Protection Equipment (PPE) Class 3. Excellent for the toughest conditions! Lined for high comfort. Water- and dirt repellent outside. Jacket and Overall have openable ventilation in the armpit, waterproof cuffs and adjustable hood. Trousers have lots of practical details for both function and comfort. (See all functional details and features on next page.)



### HI VIS OVERALL WITH HOOD

Weight 2.5 kg / 5.5 lbs. (Overall size L).

**Sizes** XS–3XL

**Art. No.** 5640025 5690

### GLOVES AND BOOTS

See ordinary ProOperator catalog for more information.



### HI VIS JACKET WITH HOOD

Weight 1.6 kg / 3.5 lbs. (Jacket size L).

**Sizes** XS–3XL (see table in ProOperator catalog)

**Art. No.** 5622025 5690

### HI VIS TROUSERS

Weight 1.3 kg / 2.9 lbs. (Trousers size L).

**Sizes** XS–3XL (see table in ProOperator catalog)

**Art. No.** 5632025 5690

## Important Functional Details



Openable ventilation in the armpits.



Reinforcements on the knees.



Comfortable inside arm cuffs prevent leakage.



Adjustable hood with room for hearing protection.



Pockets for knee pads.



Pocket for ID card on the right sleeve.



Zippers down on the legs.



Knife pocket on the right leg

### TECHNICAL DESCRIPTION

Outer material: High Visibility Laminated Polyamide. Inner material: Polyester mesh. Protective material: Special fabric containing Dyneema® fiber. Seams: Taped. Washing instructions: TST Special Grease Remover and machine wash 40°C/104°F. (No tumble drying.) Approved according to the directive 89/686/EEC (waterjetting and high pressure cleaning) and EN ISO 20471:2013 (High Visibility). Tested for pressurized hydraulic fluid.



### TEST RESULTS - PROTECTION LEVELS CLOTHING

The different levels of protection have been determined by testing according to the table below. In High Pressure Cleaning mainly three types of nozzles/jets are used – rotor, flat and single. The safety levels have been adjusted to cover the most common work situations and to verify the quality of clothing and protective qualities.

**Note!** Different values (for example pressure, flow, nozzle, distance or speed) can give significantly different results!

Prot. level	Pressure bar (psi)	Flow (l/min)	Nozzle type	Dist. (mm)	Speed (m/s)	Result
5/5/2	500 (7500)	16,9	Rotor - Rotary jet	75	0,5	No penetration
5/5/2	500 (7500)	16,9	Flat - Single fan jet 15°	75	0,5	No penetration
5/5/2	200 (3000)	10,7	Single - Single round jet	75	0,5	No penetration

## The strongest fiber in the world!

Dyneema® is the world's strongest fiber

(15 times stronger than steel on a weight for weight basis).

This makes it possible to offer high levels of protection against waterjetting and hydraulic fluid hazards even with lightweight fabric. Being much thinner and more flexible than traditional materials, such as leather, cotton and metals, products made with Dyneema® fiber will be very comfortable. Employees will appreciate this comfort, combined with higher protection, and consequently are more likely to wear them at all times.

