



**LUNO
SYSTEMS**

SYNCHRO SUIT



SYNCHROSUIT TM



The Synchronosuit™ is a chemical protective suit designed for high risk working with airline breathing apparatus in contaminated environments. Designed for demanding applications such as hydrocarbon and chemical tank cleaning, the Synchronosuit™ provides the solution to age old problems associated with this kind of work.

The suit features a pass through connection for up to 14-20mm breathing air hose, whilst still maintaining the integrity of the suit. This enables compatible airline breathing apparatus such as the Luno Airstar™ to be contained within the suit and protected from contamination. There is enough space within the suit for leg mounted escape cylinders also and a rip away strip enables emergency access to the escape cylinder.



Suit construction is multi layer composite barrier film/EVOH barrier film and spunbond polypropylene, with stitched and PE taped seams. Orange suit colour gives good visibility in low light environments, reinforced knee patches, heavy duty double zip with tape, and elasticated wrist and ankle make the suit perfect for heavily contaminated industrial environments, providing Type 3,4,5 and 6 Protection.

Additional coupling covers are available to protect the integrity of couplings from dirt ingress, whilst still enabling detaching the user from the airline if needed.

Reinforced knees



Double zip



Pass through membrane



Escape cylinder access



Coupling covers



Elasticated wrists and ankles



Material Performance Data

TEST	STANDARD	
Abrasion Resistance	EN 530	Class 2
Flex Cracking	ISO 7854	Class 4
Tear Strength (Trapezoidal)	ISO 9073-4	MD - Class 4 XD - Class 3
Bursting Resistance	ISO 13938-2	Class 2
Tensile Strength	ISO 13934-1	MD - Class 3 XD - Class 2
Puncture Resistance	EN 863	Class 2
Resistance to Ignition	EN 13274-4	PASS
Surface Resistance / Resistivity	EN 1149-1 EN 1149-5	PASS

KEY: MD - Machine Direction XD - Cross Direction





Resistance to Permeation
by Chemicals EN 374-3

FABRIC BREAKTHROUGH TIME (MINS) EN 14605	
Sulphuric Acid 30% (H ₂ SO ₄)	-- / --
Sulphuric Acid 98% (H ₂ SO ₄)	>480 / Class 6
Sodium Hydroxide 10% (H ₂ SO ₄)	-- / --
Sodium Hydroxide 40% (H ₂ SO ₄)	>480 / Class 6
o-Xylene (undiluted)	>480 / Class 6
Butan-1-ol (undiluted)	>480 / Class 6
SEAM BREAKTHROUGH TIME (MINS) EN 14605	
Sulphuric Acid 30% (H ₂ SO ₄)	-- / --
Sulphuric Acid 98% (H ₂ SO ₄)	>480 / Class 6
Sodium Hydroxide 10% (H ₂ SO ₄)	-- / --
Sodium Hydroxide 40% (H ₂ SO ₄)	-- / --
o-Xylene (undiluted)	-- / --
Butan-1-ol (undiluted)	-- / --
Garments have been tested to EN 374-3 to indicate resistance to chemicals. Test on the fabric and seams have been conducted. Note: Breakthrough times on seams may be lower than on the fabric. Other chemicals have been tested. Please refer to your supplier for further information.	

Resistance to Penetration
by Chemicals EN 368

REPELLENCY INDEX % / PENETRATION INDEX %	
Sulphuric Acid 30% (H ₂ SO ₄)	93.1% / 0% Class 2 / Class 3
Sodium Hydroxide 10% (NaOH)	94.5% / 0% Class 2 / Class 3
o-Xylene (undiluted)	--
Butan-1-ol (undiluted)	--

Order Information

SS001 Synchrosuit™ Chemical. Available in M, L, XL, XXL
20052 Pass Through Connection
20053 Hose Coupling Cover

Electrostatic Properties EN 1149-1 & EN 1149-5

When tested in accordance with EN 1149-1:2006, the surface resistance of at least one surface of the fabric meets the performance requirements detailed in EN 1149-5:2008 (Clause 4).

The wearer shall be properly earthed. The resistance between the wearer and the earth shall not be less than 10² ohms eg. by wearing adequate static dissipating footwear.

The garment shall not be opened, adjusted or removed whilst in the presence of flammable or explosive atmospheres or while handling flammable or explosive substances.

Fasten garment correctly. Ensure that the cuffs are in contact with skin at all times, where earthing is through the skin. Electrostatic dissipative protective clothing shall permanently cover all non-complying materials during normal use.

Do not use in oxygen enriched or explosive atmospheres without prior approval of the responsible safety engineer.

The electrostatic dissipative performance of the clothing can be affected by wear, tear & contamination. Not intended to protect against mains voltages. No modification permitted.