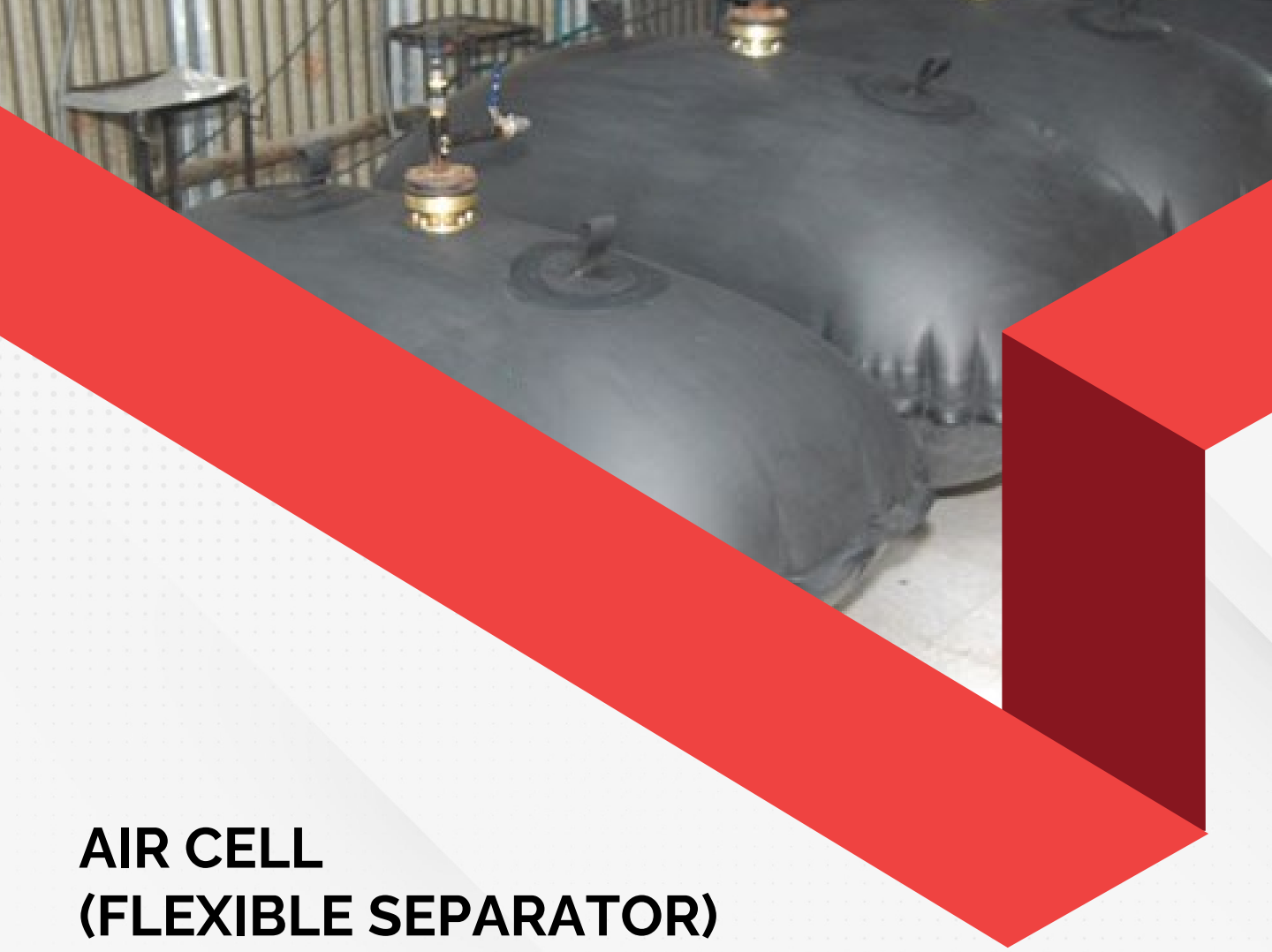




Nu-Cork

25+ Countries | 30+ Year Experience | 500+ Customers





AIR CELL (FLEXIBLE SEPARATOR)

Fluid protection is critical to avoiding mishaps and losses in oil-cooled power transformers. Our Air Cell was created with fluid protection in mind.

The Air Cell (Flexible Separator) is installed inside a conservator tank, isolating the insulating oil from the atmosphere and preventing contamination of the transformer oil due to oxidation and hydrolysis by gas and moisture.



The bag is vented to the transformer through flange installation and inflates or deflates to compensate for oil volume displacements caused by temperature changes in the transformer.

The Air Cells are constructed utilizing a time-honored combination of Nylon (Polyamide) fabric and a thick coating of Elastomers, specifically Acrylonitrile Butadiene Rubber (NBR), Polychloroprene (CR), and Hypalon (CSM).

Rubber compounds are made to minimize separator deterioration and resist air leakage through membranes, hence lowering the amount of air in transformer oil. Over time, this air/gas can degrade the dielectric strength of the insulation system, accelerating its ageing.



APPLICATIONS OF THE AIR CELL

- A straightforward design with no extendable components
- Inspection requires a small number of man-hours
- Economical with an extended service life
- Corrosion prevention
- Filling the transformer tank with oil is possible without exposing it to air.
- Since insulating oil is isolated from the atmosphere via an air cell, no oxygen or moisture can penetrate the oil.
- The pressure on the oil's surface is always maintained at atmospheric pressure, ensuring that the oil does not become supersaturated and create bubbles; hence, a high dielectric strength may be maintained.



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