

DATA SHEET

NxTM ECO TriMicron Element Series

Description

The filter elements in the TriMicron series have been specially developed for the combined filtration of fine solid particle contamination, water and oil-aging products from hydraulic and lubrication oils in the bypass flow.

They are a combination of pleated and SpunSpray depth filter elements. The filter layers are produced using melt-blown technology (synthetic fibers).



Features

- Excellent filtration performance ($\beta_{5(c)} > 1000$)
- Low initial differential pressure
- High contamination retention capacity
- Fine particle contamination, water and oil aging products removed by depth filter material
- Broad range of fluid compatibility
- Simple element change

Applications

- Offline filtration in lubrication systems (e.g. in wind turbines)
- Offline filtration in hydraulic systems
- Transmission and hydraulic test rigs

Technical Specifications

Model	N1TM003/ECO	N14TM003/-ECO	N3TM003/ECO	42.0TM/-ECO
Part Number	7643926	7643925	7647238	7644096
Multipass Test in Accordance with ISO 16889				
Dirt Holding Capacity @ 2.5 bar ΔP	>250g	>400g	800g	>550g
Filtration Efficiencyβ(c)	200	200	>500	>500
Water Holding Capacity	400 mL	560 mL	>500mL	500 mL
Influence on Oil Composition				
Foam Behavior (Flender Foam Test)	increase of 2%			
Oil Additives (Silicon and Boron)	almost no reduction			
Construction of Filter Element				
Contaminants Removed	Particles, water and oil aging products			
Filter Element Design	Synthetic media for particulate and water removal			
Filtration Rating	3 μm			
Permitted Fluid Temp. Range	14 to 176 °F (-10 to 80 °C)			
Storage Temp. Range	41 to 104 °F (5 to 40 °C)			