



NBC FILTER

FCS 300M

This filter cartridge is an indigenized equivalent of the NATO standard STANAG 4447 filter cartridge. The airflow capacity is standardized @ 300 m³/hr +/-10% regarding DEF Std. NES 102 Part 1. A number of these standard radial filters required inside an AFU determine the total airflow needed from the AFU by 300 and, where necessary, rounding up.

NIKHTISH ENGINEERING PVT LIMITED

Founded in 2008, is India's leading manufacturer and distributor of CBRNE Filtration Systems, Air Filters & Clean Room Validation Services. We cater to industries, namely, Pharmaceutical, Automotive, Hospitality, Dairy, Food & Beverage, Biotech, Defence, and Nuclear power plants. An equal opportunity employer Nikhtish focuses on consistent innovation & development, especially CBRNE (Chemical, Biological, Radioactive Nuclear & Explosives) air filtration systems, and filters while ensuring quality. The manufacturing facility has been ISO 9001 compliant since 2012, and the products are tested by Standards Institute of Israel continuously in their state-of-the-art facility around the year as part of quality assurance.

Filter Features

- Indegenised version of NATO Standard STANAG 4447 filter.
- Each filter is manufactured and tested as per DRDE Specification no. DRDE/TC/00287/NBCD/FCS300/2019.
- NBC filter is used in conjunction with air ventilating unit of Ship.
- HEPA is capable to remove all aerosols and harmful particles (≥ 0.3 micron), bacteria and other similar organisms.
- Absorbent bed (impregnated carbon) is capable for retention and degradation of persistent and non persistent chemical warfare agents, respectively.
- NBC filter cartridge FCS 300M is to protect the personnel and the equipment in Naval ships or a shelter against nuclear, biological and chemical warfare agents.
- Order executed in association with DRDE, Gwalior & NBC Equipment wing, Aundh Pune.

Technical Specifications

Rated Capacity	300 m ³ /hr.
Pressure Drop (Air flow resistance at 300m³/hr)	Not more than 140 mm of WG.
Collection Efficiency (Particulate removal efficiency)	$\geq 99.97\%$ for 0.3 micron.
Protection potential (Adsorption Capacity)	Minimum 900 mg-min/L for CCL4.
Weight	28 kg.
Dimensions	Diameter: 545 mm & Height: 253 mm.
Testing in Accordance	DRDE/0287/90-91/FAT-200M/SPEC-1 Rev-2 (Nov 2017), JSS No. 6810-147:2014, JSS 55555.
Impregnated Carbon	As per DRDE/0287/NBCD/98/4(B) Rev(Apr2006).
Filter Construction Material	Aluminium 5052.
Operating Temperature Range	Temp +5°C to +55°C.
Storage Temperature Range	Temp 25°C.
Humidity Resistance	90 % RH
Gasket	Soft closed rubber.
Surface Coating	Primer coat as per IS:1874, Fire retardant pale cream paint as per JSS-3-47-05.

Applications



**BATTLE
TANK**



**ARMY
SHELTER**



**ARMY
BUNKER**



**SHIP
CITADEL**



**NUCLEAR
POWER PLANT**

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