amafilter – LFC Lochem (Filtration Group Process Systems) amaPure TS filter cartridge is an absolute rated depth filter cartridge. The polypropylene depth filter media is made by winding polypropylene meltblown filter layers around an internal centre core. The decreasing porosity from the outside to the inside creates a high holding capacity. The larger particles will be retained in the outer layers and the finer particles in the inner layers. The high efficiency and high dirt loading capacity makes the amaPure TS filter cartridge the ideal prefilter cartridge for a wide variety of applications.

Features
- High dirt holding capacity
- Absolute filter ratings ($\beta$-ratio $\geq$ 5000 or $>$99.98%)
- Construction materials chemically and biologically inert
- Steamable in-situ
- Sanitizable with hot water
- Wide chemical compatibility

Typical applications
- R.O. pre-filtration
- Demineralized water
- Beverages (wine and beer industry)
- Food
- Cosmetic
- General chemical

Standard specification
- Filter medium: polypropylene
- Hardware: polypropylene
- End-caps: polypropylene
- End cap seal: thermally welded
- External diameter: 68 mm
- Internal diameter: 30 mm
- Micron rating: 0.5 up to 40 µm
- Lengths: 10, 20, 30 or 40 inch length
- Maximum operating temperature: 80 °C
- Gaskets / O-rings: silicone (standard) or EPDM
- Maximum recommended differential pressure
  - Design: 4.5 bar at 30 °C
  - Operating: 2.0 bar at 25 °C
- Steam sterilisation in-situ or autoclaved up to 126 °C for 20 minutes
- Hot water sanitisation with max. 80 °C water

Customer support
Filtration Group can support you regarding the chemical compatibility of the filter media and give advice to select appropriate product.
Ordering information

Example

TS05-30U-X3S

1 Type
TS - polypropylene

2 Micron rating [μm]
00.5; 01; 03; 05; 10; 20; 40; 50; 70; 90

3 Cartridge (nominal) length [inch]
10 - 254 mm
20 - 508 mm
30 - 762 mm
40 - 1016 mm
Other lengths can be available on request

4 Hardware material
U - polypropylene outer cage
(outer cage is not applicable for cartridge style X9)

5 Cartridge style
X3 - SOE with external 222 O-rings
X4 - DOE with flat gaskets
X7 - SOE with fin end and external 226 O-rings
X8 - SOE with fin end and external 222 O-rings
X9 - DOE with flat polyethylene soft gaskets

6 O-ring or gasket material
S - Silicone
E - EPDM
V - Viton®
N - Buna-N

V: Flow rate [l/h]
y: dP Clean pressure drop [bar]