



Certificate of Quality

Quantum® EX Polishing Cartridge

We certify that the product described within meets the following criteria.

Catalogue Number : QTUM000EX
Lot Number : F8PA49056
Manufacturing date : 27-NOV-2018

ISO 9001 Quality standard

This product was engineered and validated in a Millipore SAS facility which Quality Management System is approved by an accredited registered body to ISO 9001 Quality Systems Standard.

Materials

Quantum® EX Polishing Cartridges contain a combination of purification media carefully selected to remove trace contaminants affecting specific applications.

These cartridges are constructed from polypropylene and polyethylene which are suitable for production of ultrapure water and have been qualified for low organics and ionic extractables.

Product Integrity

This lot of product was statistically tested during manufacturing and met requirements for the seal integrity test.

Capacity

The exclusive Jetpore®, ultrapure grade mixed-bed ion-exchange resin used in this Quantum insures a minimum total capacity of 27 g NaCl. Dynamic capacity of this product is greater than 10 g NaCl (tested according to Millipore SAS specifications).

Quality Assurance Lot Release criteria

This manufacturing lot was sampled, tested and released showing compliance with the following characteristics:

- Burst strength: Samples met the Millipore SAS requirements for destructive burst test.
- Resistivity: Samples met the requirements for ASTM Type 1 Water, achieving resistivity above 18.0 MΩ.cm at 25°C.
- TOC: Samples achieved TOC levels below the specifications given in table after flushing with Elix® water.

Burst test	TOC
> 20 bar > 290 psi	< 10 ppb

Laetitia Breitwiller
Lab Water Quality Assurance Manager