

Technical Data Sheet

Material Designation

QA - QUARTZ

Material Properties
Summary

☒ *Binderless*

☐ *Organic Binder*

☐ *Double Laminated*

☐ *Acrylic Binder*

☐ *Laminated*

☐ *Hydrophobic*

This microfiber depth filter contains binder-free quartz (SiO_2) microfibers. High purity levels are due in part to the inherently low trace metal content of the quartz media. Quartz microfiber also demonstrates a very high heat resistance with a maximum temperature of 1000°C.

Chemically resistant against all solvents, acids (except hydrofluoric acid) and basis. This filter media is ideally suited for laboratory filtration of aggressive media, trace analysis typical to environmental methods and conveyance of samples into and out of high temperature furnaces and environments.

Micron rating

2.1 - 2.2

μm

Basis Weight

(87g/m²)

lbs/3,000 ft²

TAPPI Method T410

Caliper Thickness

.048

inches - 4 psi

TAPPI Method T411

Mean Pore Size

1.5

μm

DOP Smoke Penetration

99.999

% at 0.3 μm @
10.5 ft/minute

ASTM Method D-2986

Air Flow Resistance

95

mm H₂O @
10.5 ft/minute

ASTM Method D-2986

Tensile Strength MD

7.3

lbs / inches

TAPPI Method T494

Tensile Strength CD

lbs / inches

TAPPI Method T494

Dry Elongation MD

n/a

%

TAPPI Method T494

Dry Elongation CD

n/a

%

TAPPI Method T494

Frazier Permeability

n/a

ft³ / min / ft² @
0.5in H₂O W.G.

ASTM Method F778-82

Gurley Stiffness

26

mg

TAPPI Method T543

Water Repellency

n/a

Inches H₂O

Ignition Loss

binderless

% Loss

Comments:

Industry equivalents are Whatman QMA,
S&S QF-20, MFS QR-100, Pall MicroQuartz

Actual filtration performance, i.e. efficiency and dust holding capacity, will vary depending upon filter design parameters and the normal variation of the media properties consistent with the specification range. We continuously strive to define our products and hence the specifications are subject to change.