

# Typical properties of Hastelloy® C276 filter elements.

## Hastelloy C276 Rolled and Welded Filter Element Dimensions

Media Grade	Cartridge Wall Thickness (in.) (±0.005 in.)	Standard Cartridge Diameters (in.)
0.5	0.030, 0.047	1, 2, 2.5, 3
1	0.047, 0.062	1, 2, 2.5, 3
2	0.062	2, 2.5, 3
5	0.062	2, 2.5, 3
10	0.062	2, 2.5, 3

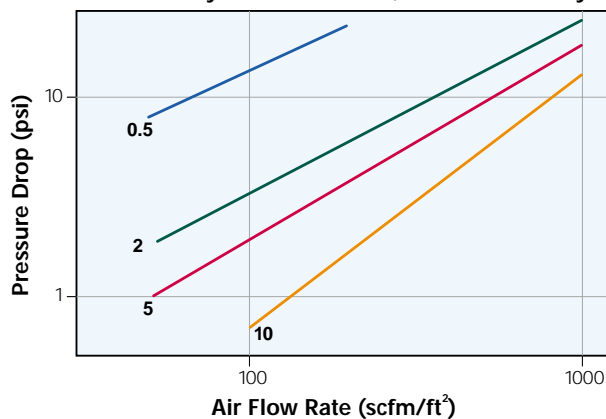
**NOTE:** Cartridges are welded to make 10" to 80" standard lengths. Other diameters and longer lengths are available.

## Hastelloy C276 Seamless Filter Element Dimensions

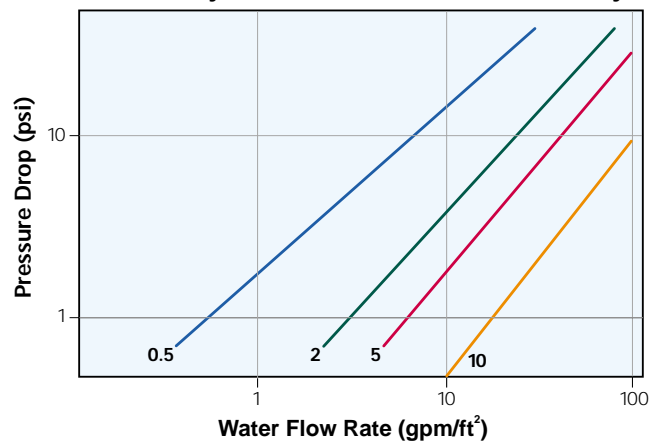
Media Grade	Cartridge Wall Thickness (in.) (±0.020 in.)	Cartridge Diameters (in.) (+5%; -1%)
0.5	0.062 - 0.125	0.375 - 1.0
1	0.062 - 0.125	0.375 - 1.0
2	0.062 - 0.125	0.375 - 1.0
5	0.062 - 0.125	0.375 - 1.0
10	0.062 - 0.125	0.375 - 1.0
20	0.062 - 0.125	0.5 - 1.0
40	0.078 - 0.125	0.5 - 1.0
100	0.093 - 0.125	0.5 - 1.0

**NOTE:** Maximum length is 24". Tubes are welded to make longer lengths.

### Hastelloy C276 Elements, Air Permeability



### Hastelloy C276 Elements, Water Permeability



## Typical Tensile Properties of Hastelloy C276 Rolled and Welded Filter Elements

Media Grade	0.2% Yield Strength (psi)	Ultimate Tensile Strength (psi)	Percent Elongation	Modulus (Million psi)
0.5	24,000	27,000	1.3	10
2	15,000	17,000	1.3	7
5	10,000	12,000	1.4	5
10	6,500	8,000	1.4	4

### NOTES:

- The permeability values may vary ±15%. Tensile properties are typical values.
- Hastelloy C276 porous media may be used up to 1000°F. The maximum service temperature will depend on the environment. Please consult factory for further details.
- The suggested applications of Hastelloy C276 alloy contained in this publication are based on information available in open literature. Mott Corporation does not make any warranties or assume any legal liability for its accuracy, completeness or usefulness.

### Typical Applications of Hastelloy C276

- Bleach plants in Paper and Pulp Industry
- Components exposed to sour gas
- Flue-gas desulfurization
- Sulfuric acid environment
- Petrochemical plants
- Organic chloride production
- Food processing equipment
- Sea water and brine solutions