



# POROFLO® FLUIDIZING MEDIA

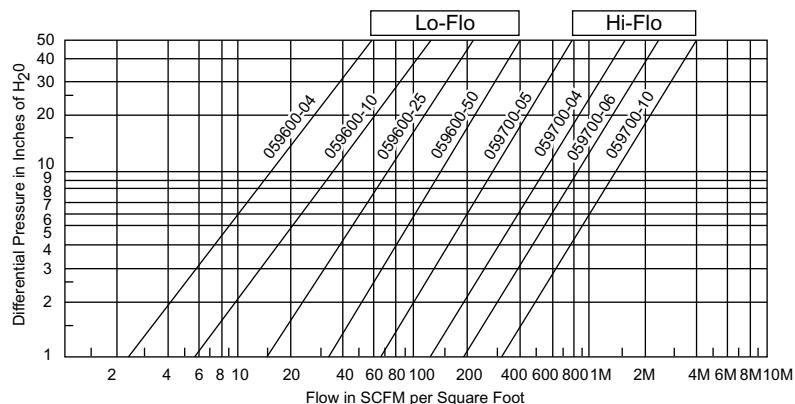
Poroflo® Fluidizing Media are made by permanently joining together layers of woven wire mesh by a unique diffusing bonding process. Precise control of permeability, strength and corrosion resistance is achieved by careful selection and layering of the wire mesh, followed by precision calendaring and sintering. Optimum performance and service life can be attained for any fluidizing application.

Poroflo® media are available in four Hi-Flo and four Lo-Flo standard specifications that will satisfy practically all fluidizing application requirements. The media are produced in basic flat sheets and can also be fabricated into finished components by Purolator.

## FEATURES

- **High-strength material-** AISI Type 316 Stainless Steel is standard and much stronger than other fluidizing media. Other alloys available on special order.
- **Good abrasion resistance-** Greater than for metal felt or powdered metal.
- **Superior dimensional stability-** Permanent diffusion bonding of interwoven metal wire mesh.
- **Non-migrating-** Wire mesh prevents contamination from flaking, chipping, shedding, fiber abrasion and other media migration.
- **Excellent corrosion/oxidation resistance-** Equals the properties of the parent metal; can be custom-tailored for specific material compatibility in most process applications.
- **High-temperature operation-** Up to 1000°F continuous and 1200° F intermittent operation. Higher ranges possible with other special order alloys.
- **Easily fabricated-** Can be formed, punched, welded, sheared or riveted.
- **Easily cleaned-** Can be cleaned chemically or with steam for sanitary/food handling applications. Dries quickly; won't retain moisture.
- **Available in sheets or as fabricated components-** Standard seamless sheets available from stock. Larger butt-welded sheets (unlimited size) available on special order. Fabricated and formed components also available.

## POROFLO® MEDIA PERFORMANCE DATA



All specifications subject to change without prior notice.

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## POROFLO® FLUIDIZING MEDIA

### APPLICATIONS

- **Fluidized Hoppers**
  - Railroad Hopper Cars
  - Bulk Product Transporters & Haulers
  - Storage Silos for food products, cement, plastics, chemicals
  - Powder Filling Machines
- **Fluidized Gravity Conveyors**
  - Chemical Plants
  - Cement Plants
  - Alumina Plants
  - Food Processing Plants
  - ...to replace any canvas, ceramic, felt, porous stone, or porous plastic material
- **Fluidized Beds**
  - Mixers
  - Combustors
  - Dryers
  - Coolers
  - Thermal Reactors
  - Catalyst Support Beds
  - Fluidized Plastic Coating Equipment
- **Gas Spargers**
  - Ozonators
  - Process Reactors
  - Water Purification
  - Waste Treatment Plants
  - Gas Burst Agitation Tanks
  - Slurry Agitation & Aeration

### LOW-FLOW MEDIA

SPEC. NO.	PERMEABILITY (AIR FLOW)*	THICKNESS (in.)	YIELD STRENGTH (lbs./in.)	ULTIMATE TENSILE STRENGTH (lbs./in.)	ELONGATION (%)
059600-04	4	.048	24,000	32,000	10
059600-10	10	.052	24,000	32,000	10
059600-25	25	.056	22,000	32,000	12
059600-50	50	.059	20,000	32,000	15

\* SCFM/sq. ft. @ 2" H<sub>2</sub>O

### HIGH-FLOW MEDIA

SPEC. NO.	PERMEABILITY (AIR FLOW)	THICKNESS (in.)	YIELD STRENGTH (lbs./in.)	ULTIMATE TENSILE STRENGTH (lbs./in.)	ELONGATION (%)
059700-02	200	.040	12,500	24,000	25
059700-04	400	.047	10,500	21,000	29
059700-06	600	.052	9,500	19,000	32
059700-10	1000	.064	7,500	15,000	32

Fluidized Beds

Gas Spargers

Fluidized Gravity Conveyors

Fluidized Hoppers

