

## Graded Density

Depth filtration for enhanced clarity-  
For filtration to 1.0 micron

Rosedale's Graded Density (GD) Fat Bags® bags have approximately four times the dirt holding capacity of standard bags at equivalent filtration levels. These bags have 9 layers of material, each with 4.4 sq. ft. of surface area. GD bags are easier to install and remove, require less room in storage and disposal, and prevent the contaminant wash off downstream associated with cartridges.

They produce excellent results when used as a pre-filter for membrane filtration. They will retain a large quantity of contaminant that will unnecessarily clog the membrane. The bags are available in either all polyester or all polypropylene construction. **Polyester should be used** where oil adsorption is not desirable or where higher temperatures are required.

### Filtration Level

These bags have been tested by an independent laboratory to determine the filtration efficiency of the media used in each of the filter bags. The efficiencies for polyester and polypropylene are identical.

Model Number	523	525	527	529
<b>EFFICIENCY</b>	<b>MICRON RATING</b>			
95.0%	1.0	3.0	8.0	19.0
99.0%	2.0	5.0	19.0	25.0

The test was conducted using AC Fine Test Dirt interfaced into clean water at 20 GPM.

### Dirt Carrying Capacity

Tests that were conducted using a size 2 bag and AC fine test dirt at 20 GPM, show dirt holding capacities for the following filtration ratings (at 20 psi).

Micron Rating (95%)	Model	Dirt Holding Capacity (in grams)
1.0	523	267
3.0	525	296
8.0	527	573
19.00	529	870

Pressure drop at 50 gpm flow (water) and specified micron rating using a Rosedale Model 8 (8-30) filter.

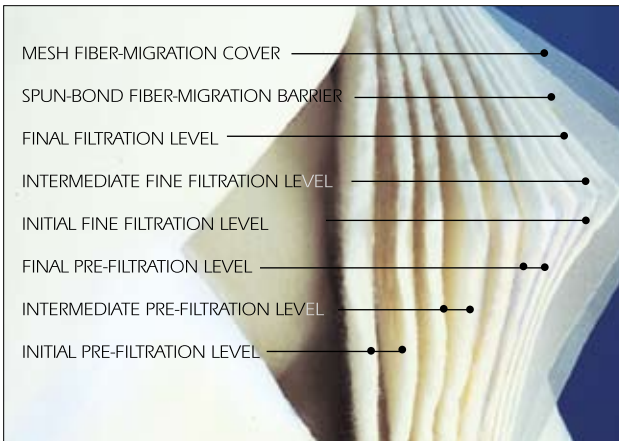
## Design Details

Graded Density Bags have a 304

stainless steel retaining ring sewn in their opening. Heavy-duty handles, sewn to the reinforced bag lip, are a standard feature. They make bag removal faster and easier.

The bags are sewn, then turned inside out to avoid leakage through the threads. They are also made with sewn, fully-shaped bottoms to enhance the pressure capacities of the bags.

There are two sizes available. Size 1 is 7 inches by 16 inches. Size 2 is 7 inches by 32 inches.



## How To Order

Build an ordering code as shown in this example

**Example:** **GD - PO - 523 - 1 - RPO**

**GRADED DENSITY = GD**

**FIBER**  
Polyester = **PE**  
Polypropylene = **PO**

**MICRON RATINGS (95%)**  
1.0 Micron = **523**  
3.0 Microns = **525**  
8.0 Microns = **527**  
19.0 Microns = **529**

**BAG SIZE (nominal in inches)**  
Dia. x Length      Symbol  
7-1/16 x 16      = **1**  
7-1/16 x 32      = **2**

**ROSEDALE TOP BAG STYLES**  
Polypropylene = **RPO**  
Polyester = **RPE**