

# DUOLINE FELT

AMAZON

## DISPOSABLE NEEDLEFELT FILTER BAGS



**DuoLINE** filter bags have been designed to provide effective filtration for a wide range of applications using a variety of filter media. Manufactured with welded seams, to provide greater security over the more common stitched alternatives.

**DuoLINE PP, PE, NY** and **NX** range filter bags adopt the use of needlefelt type media which provides both surface and depth filtration for maximum dirt capacity.

### Product Features

- Polypropylene, Polyester, Nylon and Nomex needlefelt media, rated between 1 - 200µm
- Wide chemical compatibility
- Double integral handles on all models
- FDA compliant material (PP Only)
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 (PP Only)

**DuoLINE XP** filter bags are designed to give longer service life, therefore reducing operating costs and process downtime. The **XP** bags greater depth provides additional void volume resulting in a greater dirt holding capacity resulting in a longer life over standard needlefelt materials of up to 2-5 times.

### Product Features

- Polypropylene needlefelt media, rated 1 - 100µm
- Double integral handles on all models
- Extended life
- FDA compliant material

Three bag diameters are available in the **DuoLINE** range, 4¼, 5½ and 7" all fitted as standard with a top ring locator in various materials and styles.

All **DuoLINE** bags are designed to filter from the inside to out leaving the contamination inside the bag for simple disposal. These needlefelt bags can be used for both pre and final filtration duties. Amazon Filters manufacture a comprehensive range of filter housings for the **DuoLINE** bags. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details of the full range.



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## DUOLINE FEATURES AND BENEFITS

- Micron ratings available from 1 to 200µm for wide ranging filtration needs
- Optional moulded polypropylene flange with handles for superior sealing and ease of handling
- Welded Needlefelt as standard for 4¼ and 7" ring sizes
- Wide selection of filter media and support ring materials
- Identification supplied with every bag
- Silicone free for use in automotive paint applications

## TECHNICAL DATA

### Maximum Operating Conditions

|             |       |         |
|-------------|-------|---------|
| Temperature | 19PP: | 95°C    |
|             | 19PE: | 135°C*1 |
|             | 19NY: | 135°C*1 |
|             | 19NX: | 190°C*1 |

### Recommended Maximum Differential Pressure: 4 Bar

Amazon Filters recommend that DuoLine Needlefelt bags are changed at a differential pressure of 1.5 bar in normal service - the operating condition above should be treated as a maximum differential pressure for short term use.

Please note that operating temperatures greater than ambient will reduce the bags' ability to withstand differential pressure and that the bag should be used with caution at elevated temperatures.

\*1 Bags adopting the use of a polypropylene sealing flange have a maximum operating temperature of 95°C.

| Bag Size | Length (mm) | Ring Diameter (mm) | Capacity (Litres) | Surface Area (m <sup>2</sup> ) | Flow Rate (m <sup>3</sup> /hr) *2 |
|----------|-------------|--------------------|-------------------|--------------------------------|-----------------------------------|
| 1M (P3)  | 200         | 108                | 1.8               | 0.068                          | 3                                 |
| 2M (P4)  | 355         | 108                | 3.2               | 0.120                          | 6                                 |
| 1A       | 420         | 140                | 6.4               | 0.185                          | 9                                 |
| 2A       | 810         | 140                | 12.5              | 0.356                          | 18                                |
| 3A       | 1220        | 140                | 19.0              | 0.536                          | 28                                |
| 1G (P1)  | 420         | 178                | 10.0              | 0.235                          | 12                                |
| 2G (P2)  | 810         | 178                | 20.0              | 0.453                          | 25                                |
| 3G       | 1220        | 178                | 30.0              | 0.682                          | 40                                |

\*2 The flow rates quoted are our maximum recommended values for each bag type based on water, or liquid of a similar viscosity at ambient temperature. For advice on the filtration of liquids with greater viscosities please contact our sales office.

## ORDERING GUIDE

|  |  |  |   |   |   |   |   |   |   |
|--|--|--|---|---|---|---|---|---|---|
| 19   | ○ ○ ○  | ○ ○ ○ ○  | -   | ○   | ○   | ○ | ○ | ○ | P |
| <b>MEDIA</b><br>PP - Polypropylene Needlefelt<br>PE - Polyester Needlefelt<br>NY - Nylon Needlefelt<br>NX - Nomex Needlefelt<br>XP - Extended Life polypropylene*3 | <b>MICRON RATING</b><br>001 - 1.0µm<br>005 - 5.0<br>010 - 10<br>025 - 25<br>050 - 50<br>100 - 100<br>200 - 200 | <b>LENGTH</b><br>1 - Single<br>2 - Double<br>3 - Triple<br>(A & G type only) | <b>RING TYPE</b><br>M - 4.25"<br>A - 5.50"<br>G - 7.00" | <b>OPTION 1</b><br>L - Zinc Plated Ring + Loops<br>T - St.St Ring + Loops<br>Y - Polypropylene moulded sealing flange<br>(M & G type only)<br>E - PE Ring (G type only) | <b>OPTION 2</b><br>E - Standard (Silicone Free)<br><br>Other special options are available on request |   |   |   |   |

All bags are available with an optional nylon monofilament outer support scrim - please refer to the Sales Office.

Example: 19PP025-2GTEP = Polypropylene needlefelt media, 25µm rating, Double length, 7" diameter, Stainless steel support ring with loops, Silicone free

\*3 Available with Y ring option on G size ring only

## INDUSTRIES AND APPLICATIONS

|   |  |
|---|--|
| <b>Pharmaceutical</b><br><b>Cosmetics</b><br><b>Metal Finishing</b><br><b>Water Treatment</b><br><b>Automotive</b><br><b>Chemical</b><br><b>Petrochemical</b> | <ul style="list-style-type: none"> <li>• Bulk transfer, Catalyst removal, Powder trap</li> <li>• Creams, Lotions, Gels, Filling head trap filter</li> <li>• Wash solutions, Paints, Resins, Varnishes</li> <li>• Membrane protection (Reverse osmosis, nano), Resin trap, Potable water</li> <li>• Cooling fluid, Electrophoretic paints, Degreasing systems, Phosphate filter</li> <li>• Bulk transfer lines, Tanker discharge and loading lines</li> <li>• Amine and Glycol systems, Bulk kerosene processing, Solvent transfer lines</li> </ul> |
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