

# VENABIO®

# FLOW

# MULTIPURPOSE

This product is the workhorse for the majority of fluid management applications happening in manufacturing and filling plants.

## MATERIAL

Platinum cured silicone. Post-cured, decreasing greatly the number of volatile compounds in the final products.

|                     |                   |            |
|---------------------|-------------------|------------|
| Hardness            | Shore A           | 60±5       |
| Tensile strength    | N/mm <sup>2</sup> | >7         |
| Elongation at break | %                 | >300       |
| Tear strength B     | kN/m              | >20        |
| Density             | g/cm <sup>3</sup> | 1,16± 0,02 |


## DESCRIPTIONS


Silicone tubing is the basic material upon any single use process is built.


Its great overall performance and resistance to temperature, moist, ozone and steam and high biocompatibility makes it the product of choice for all stages of bioprocessing, from drug formulation, upstream processing and all downstream's critical steps from separation to final fill.


 **Roll length**  
Available in 50ft


 **Clean room**  
Manufactured in  
ISO14644-1 Class 7

 **Temperature**  
-60°C/220°C  
(-76°F/+428°F)

 **Radiostable**  
Gamma sterilization  
available

 **Laser etched**  
Traceable with  
reference, lot number  
and ID/OD

 **Double bag**  
Double bagged under  
vacuum

 **Animal free**  
Animal derived  
component free

**STERILIZATION**

- Dry heat <sup>1</sup>
- Autoclave
- CIP<sup>1</sup>
- SIP<sup>1</sup>
- Ethylene oxide<sup>1</sup>
- Hydrogen peroxide
- eBeam (25kGy)
- Gamma (25kGy)\*

1: The responsibility of the end-user to assess the risk.

\*Sterilization available prior shipment.

**BIOCOMPATIBILITY <sup>2</sup>**

- USP 88 Class VI
- USP 87
- ISO 10993-4,5,6,10 & 11
- BfR XV
- EP 3.1.9
- FDA Standards 21 CFR 177.2600
- Extractables USP 665
- Leachables
- RoHS
- REACH (EC 1907/2006)

<sup>2</sup> For complete validation package, please contact your sales representative.

**ADDITIONAL INFORMATION**

- ADCF
- BPA free
- Nitrosamines free
- Melamine Free
- GMO Free
- TSE/BSE Free

| Reference    | ID          | OD           | Wall        | Working pressure  | Burst pressure | PUMP SIZE |
|--------------|-------------|--------------|-------------|-------------------|----------------|-----------|
| 9200852*     | mm (inches) | mm (inches)  | mm (inches) | Bar (PSI) at 20°C |                |           |
| 920085200082 | 0,8 (1/32)  | 2,4 (3/32)   | 0,8 (1/32)  | -                 | -              | -         |
| 920085200103 | 1,6 (1/16)  | 3,2 (1/8)    | 0,8 (1/32)  | -                 | -              | -         |
| 920085200105 | 1,6 (1/16)  | 4,8 (3/16)   | 1,6 (1/16)  | -                 | -              | 14        |
| 920085200106 | 1,6 (1/16)  | 6,4 (1/4)    | 2,4 (3/32)  | -                 | -              | 119       |
| 920085200204 | 2,4 (3/32)  | 4,0 (5/32)   | 0,8 (1/32)  | -                 | -              | -         |
| 920085200205 | 2,4 (3/32)  | 5,6 (7/32)   | 1,6 (1/16)  | -                 | -              | -         |
| 920085200305 | 3,2 (1/8)   | 4,8 (3/16)   | 0,8 (1/32)  | -                 | -              | -         |
| 920085200306 | 3,2 (1/8)   | 6,4 (1/4)    | 1,6 (1/16)  | 1,5 (21,6)        | 4,5 (64,8)     | 16        |
| 920085200308 | 3,2 (1/8)   | 7,9 (5/16)   | 2,4 (3/32)  | -                 | -              | 120       |
| 920085200309 | 3,2 (1/8)   | 9,5 (3/8)    | 3,2 (1/8)   | -                 | -              | -         |
| 920085200405 | 4,0 (5/32)  | 5,6 (7/32)   | 0,8 (1/32)  | -                 | -              | -         |
| 920085200407 | 4,0 (5/32)  | 7,1 (9/32)   | 1,6 (1/16)  | -                 | -              | -         |
| 920085200408 | 4,0 (5/32)  | 8,7 (11/32)  | 2,4 (3/32)  | -                 | -              | -         |
| 920085200506 | 4,8 (3/16)  | 6,4 (1/4)    | 0,8 (1/32)  | -                 | -              | -         |
| 920085200508 | 4,8 (3/16)  | 7,9 (5/16)   | 1,6 (1/16)  | -                 | -              | 3 - 25    |
| 920085200509 | 4,8 (3/16)  | 9,5 (3/8)    | 2,4 (3/32)  | -                 | -              | 15        |
| 920085200511 | 4,8 (3/16)  | 11,1 (7/16)  | 3,2 (1/8)   | -                 | -              | 123       |
| 920085200608 | 6,4 (1/4)   | 7,9 (5/16)   | 0,8 (1/32)  | -                 | -              | -         |
| 920085200609 | 6,4 (1/4)   | 9,5 (3/8)    | 1,6 (1/16)  | 1 (14,1)          | 3 (42,2)       | 17        |
| 920085200611 | 6,4 (1/4)   | 11,1 (7/16)  | 2,4 (3/32)  | -                 | -              | 24        |
| 920085200613 | 6,4 (1/4)   | 12,7 (1/2)   | 3,2 (1/8)   | -                 | -              | 26        |
| 920085200811 | 7,9 (5/16)  | 11,1 (7/16)  | 1,6 (1/16)  | -                 | -              | 18        |
| 920085200813 | 7,9 (5/16)  | 12,7 (1/2)   | 2,4 (3/32)  | -                 | -              | 35        |
| 920085200814 | 7,9 (5/16)  | 14,3 (9/16)  | 3,2 (1/8)   | -                 | -              | -         |
| 920085200913 | 9,5 (3/8)   | 12,7 (1/2)   | 1,6 (1/16)  | 0,6 (8,7)         | 1,8 (26,2)     | 96        |
| 920085200914 | 9,5 (3/8)   | 14,3 (9/16)  | 2,4 (3/32)  | -                 | -              | 36        |
| 920085200916 | 9,5 (3/8)   | 15,9 (5/8)   | 3,2 (1/8)   | 1,2 (16,8)        | 3,5 (50,3)     | 73        |
| 920085201114 | 11,1 (7/16) | 14,3 (9/16)  | 1,6 (1/16)  | -                 | -              | -         |
| 920085201316 | 12,7 (1/2)  | 15,9 (5/8)   | 1,6 (1/16)  | -                 | -              | -         |
| 920085201317 | 12,7 (1/2)  | 17,5 (11/16) | 2,4 (3/32)  | -                 | -              | -         |
| 920085201319 | 12,7 (1/2)  | 19,1 (3/4)   | 3,2 (1/8)   | 1 (14,1)          | 3 (42,2)       | 82        |
| 920085201322 | 12,7 (1/2)  | 22,2 (7/8)   | 4,8 (3/16)  | -                 | -              | 88        |
| 920085201622 | 15,9 (5/8)  | 22,2 (7/8)   | 3,2 (1/8)   | -                 | -              | 184       |
| 920085201925 | 19,1 (3/4)  | 25,4 (1)     | 3,2 (1/8)   | 0,6 (8,7)         | 1,9 (9,2)      | -         |
| 920085201928 | 19,1 (3/4)  | 28,6 (1 1/8) | 4,8 (3/16)  | -                 | -              | 90 - 191  |
| 920085202532 | 25,4 (1)    | 31,8 (1 1/4) | 3,2 (1/8)   | -                 | -              | -         |
| 920085202535 | 25,4 (1)    | 34,9 (-)     | 4,8 (3/16)  | -                 | -              | -         |
| 920085202538 | 25,4 (1)    | 38,1 (1 1/2) | 6,4 (1/4)   | -                 | -              | -         |

Additional dimensions not included in the table may be available upon request. Please contact your designated sales representative for further information. This technical data sheet applies to all VENABIO® FLOW MULTIPURPOSE tubes with reference 9200852\*.

# CONTACT

