

MORE ROBUST & SAFER CATHETERS

During the material selection process, we often see customers focused on:



Improved patient outcomes



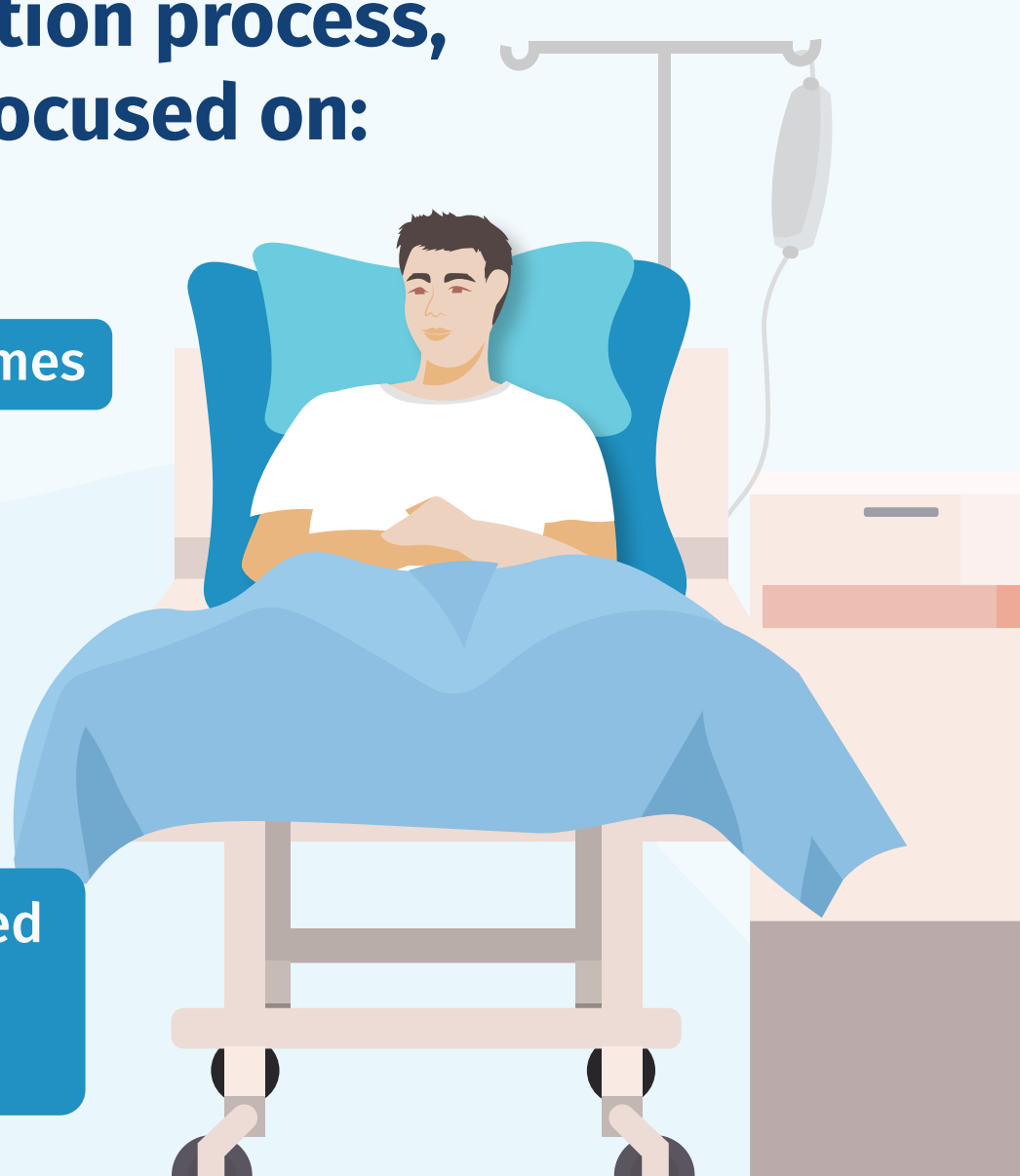
Reducing end to end system costs for devices



Developing differentiated products that deliver superior performance



Staying ahead of a dynamic and ever-changing regulatory environment



Frequently used materials for catheters include:

PE

- High chemical resistance, strength and permeability
- Sometimes stiff and exhibits kink memory

Latex or Polyurethane Elastomers

- Thromboresistant, good tensile strength and resistant to wear and chemicals
- More expensive than other materials

PVC

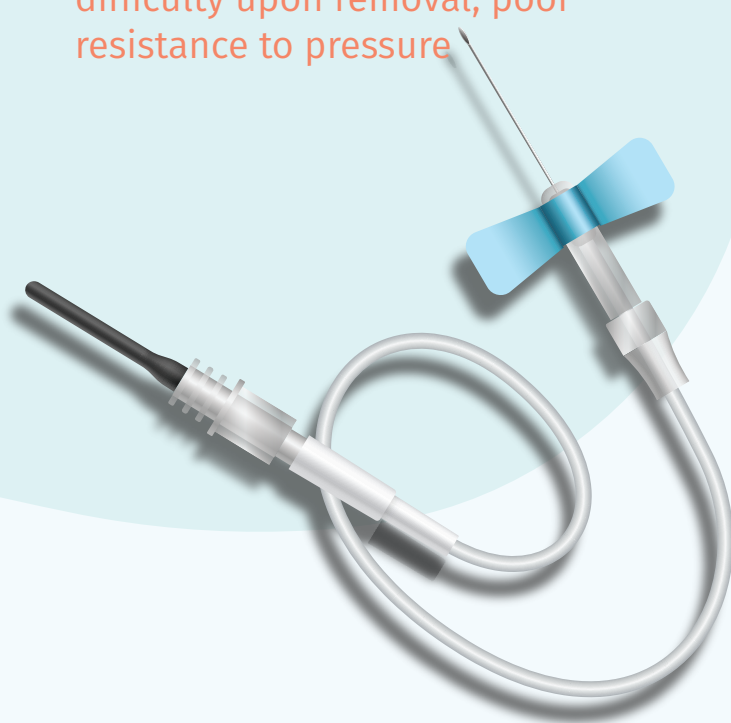
- Strong material, stiff on insertion but softens after entering the body
- Rigid and inflexible, uncomfortable for long use

Block Co-Polyamide Polyether Elastomers

- Biocompatible, sterilizable, extrudable, kink resistant
- Difficult to process and absorb moisture

Silicone

- Extremely biocompatible, thromboresistant, good alternative for patients with latex allergies
- Cuffing of balloon may cause difficulty upon removal, poor resistance to pressure



Did you know ?

Up to

40%

of device recalls are material related?



2020 FDA Class 1 Catheter Recalls²

138k
Devices

17
Injuries

7
Deaths

9
Companies

189
Complaints



There is a high-performance material solution you can trust

Arnitel® Care

is used by many of the world's leading medical device manufacturers

- Compliance

- ~ FDA food contact
- ~ USP Class VI
- ~ ISO 10993-5 & ISO 10993-10

- Strong Track Record of Quality

- ~ Zero material-related failures or recalls
- ~ 97% of customers say DSM materials meet or exceed their expectations for quality*



Learn more about catheter material solution at [DSM.com/catheters](https://www.dsm.com/catheters)

Sources

1. Jeffrey Ellis, "Material failure is root cause of many medical device recalls" Plastics Today

2. Danielle Kirsch, "The Worst Catheter Device Recalls of 2020", Medical Tubing and Extrusion, Feb 19th, 2021