



Optinova ICM™ IV-catheter tubing

Optinova in its forth decade as the world-leading supplier of IV-catheter tubing.

Based on our vast experience we have developed our ICM™ tubing concept; a concept that includes a range of specially produced tubing in the most commonly used materials for IV-catheters, giving customers various choices and opportunities.

Optinova ICM™ and state-of-the-art equipment guarantee top quality IV-catheter tubing, batch-to-batch consistency and close tolerances. All of our production takes place in a controlled clean room environment.

High quality

- Batch-to-batch consistency
- Tight tolerances
- High concentricity
- Clean room production

Excellent service

- On-time delivery
- Technical support from experienced engineers
- Education in material properties
- Test Report and Certificate of Confirmation for traceability
- Biocompatibility documentation

Additional features

- Available in dimensions according to customer specification or Optinova commodity.
- Various configurations such as transparent, filled or striped
- Supplied in cut length or on spools
- Double, sealed plastic bags



Comparison of basic properties of ICM™ tubing

Tubing properties	ICM-2™	ICM-5™	ICM-6™
Material	PTFE	FEP	TPE-U (PUR)
Force at break	++	+	+++
Elongation at break	++	+	+++
Flexural modulus	+	++	+++
Lubricity	+++	++	+
Transparency	+	++	++
Chemical resistance	+++	++	+
Kink resistance	+	++	+++
Processability	++	+++	+
Shelf life	+++	+++	+
Softens <i>in vivo</i>	-	-	+++
Water absorption	Low	Very low	High
Sterilisation			
- ETO	yes	yes	yes
- Steam	yes	yes	no
- Radiation	no	questionable	yes

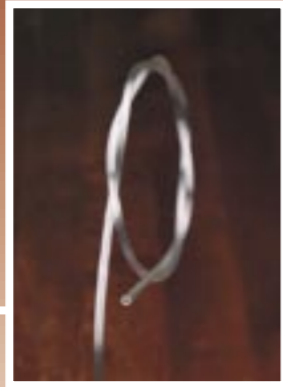
Note:

Comparisons are relative and only valid for IV-catheter assembly and usage. The table should be used as guidance only. +++ Best + Good - n/a

Gauges and corresponding sizes and colours of catheter. (ISO 10555-1:1995)

Gauge	Nominal outside diameter of catheter tube mm	Range of actual outside diameter mm	Gauge identification colour
26	0,6	0,55 – 0,65	Violet
24	0,7	0,65 – 0,75	Yellow
22	0,8 – 0,9	0,75 – 0,95	Deep blue
20	1,0 – 1,1	0,95 – 1,15	Pink
18	1,2 – 1,3	1,15 – 1,35	Deep green
17	1,4 – 1,5	1,35 – 1,55	White
16	1,6 – 1,8	1,55 – 1,85	Medium grey
14	1,9 – 2,2	1,85 – 2,25	Orange
13	2,3 – 2,5	2,25 – 2,55	Red
12	2,6 – 2,8	2,55 – 2,85	Pale blue
10	3,3 – 3,4	3,25 – 3,55	Light brown

Optinova Ab is certified according to ISO 9001:2000 and ISO 13485:2003 operating under cGMP guidelines. The tubing is produced from medical grade virgin materials. Production takes place in a clean room environment according to ISO 14644 -1.



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Optinova ICM™ IV-catheter tubing

Optinova takes you from idea to product.

Optinova has over 35 years experience of precision extrusion of customer designed components for the medical device industry. Today, our components are incorporated into hundreds of millions of lifesaving products throughout the world.

Our experience ranges from idea, via choice of material, to the delivery of precise medical device components.

This can be achieved through the use of new advanced extrusion techniques and a highly efficient production system.

You can turn to Optinova and trust that we will do our utmost to fulfil your expectations. Our integrity is without compromise and we guarantee client confidentiality.

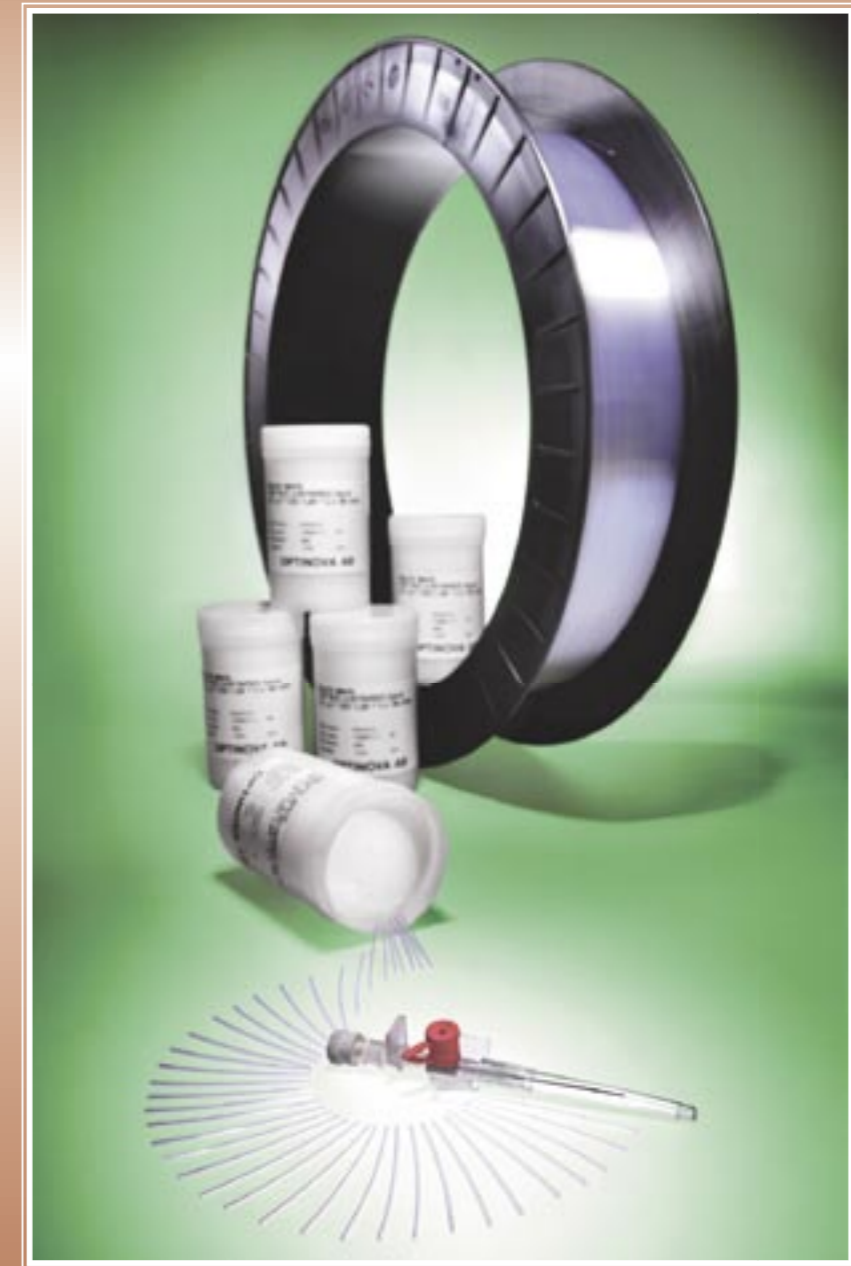
The production equipment and facilities at Optinova are of the latest design. We manufacture under cGMP guidelines in a clean room environment according to ISO 14644-1 class 6-8. We have in-process control to ensure the highest consistency and minimum batch-to-batch variation. Full documentation and traceability is always guaranteed. Optinova is certified according to ISO 9001:2000 and ISO 13485:2003.



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OPTINOVA AB IS A LEADING COMPANY IN THE PRECISION EXTRUSION OF TUBING FOR MEDICAL APPLICATIONS ACCORDING TO CUSTOMER SPECIFICATIONS. ESTABLISHED IN 1971, OPTINOVA HAS DEVELOPED A GLOBAL REPUTATION IN FULFILLING CUSTOMER EXPECTATIONS.

Medical Tubing for World Class Producers

