



X-Coating is Terumo's exclusive biocompatible surface coating. X-coating is composed of an amphiphilic polymer, which means that it has both hydrophobic and hydrophilic properties. X-coating is biopassive and will not react with blood components. It is not heparin-based and can be used with heparin-intolerant patients.<sup>1,2,3</sup>

Our engineering team is always pleased to give you the support needed to design your tubing sets. Contact your local Terumo sales representative to customise your perfusion tubing circuits.



#### REFERENCES

1. Kocakulak M, et al. Investigation of Blood Compatibility of PMEA Coated Extracorporeal Circuits. *Journal of Bioactive and Compatible Polymers*, 2002; 17: 343-356.
  2. Vang S, et al. Clinical Evaluation of Poly(2-methoxyethylacrylate) in Primary Coronary Artery Bypass Grafting. *JECT*, 2005; 37:23-31
  3. Lyne Schiel, et al. X Coating: A new biopassive Polymer Coating, Volume 11, 2001
- \* CMR: carcinogenic, mutagenic and toxic to reproduction (CLP regulation (EC) 1272/2008)  
See the Instructions for Use for complete product safety information.

## Cardiovascular Procedure Kits



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# ADAPT TO YOUR NEEDS

## Engineering and Tubing Set Production

### Intended Purpose

They are intended for channeling blood, and connection to an active device, or surgically invasive devices for extracorporeal circulation for a period up to 6 hours.

### Quality

The manufacturing site's quality system is certified ISO 13485 Medical Devices – Quality Management Systems.

### Production

Production of Perfusion tubing circuits to meet the needs of the user, environment and patient. Circuits for all patient sizes.

### Tubing Available

There are various types' durometer hardness of tubing available with a wide range of diameter and wall thickness sizes. Tubing can be coloured-stripped in most sizes and can be ordered as DEHP Free or in X-coated.

Cardiovascular Procedure Kits with X-Coated tubing contains Di(2-ethylhexyl) phthalate (DEHP; CAS N°117-81-7), classified as CMR\* 1B and endocrine disruptor, in a concentration above 0,1 % weight per weight. Based on animal studies, significant exposure to DEHP may interfere with the normal development of the male reproductive tract. For children, pregnant and nursing women, alternative devices may be appropriate.



TOTM (trioctyl trimellitate) – an alternative for DEHP. Terumo is ever striving to develop new medical technologies with minimal burden to patients and the environment. Our efforts are closely linked to our corporate philosophy of contributing to society through health care by providing safe and trustworthy products. In line with this vision, Terumo provides an alternative plasticizer for the manufacturing of its products.

