

IVB Film Phantom



Intravascular brachytherapy requires that the dose be specified within millimeters of the source.* High dose gradients near brachytherapy sources require that the source-detector distance be accurately known for dosimetry purposes. The IVB Film Phantom, REF 91200, meets these exacting requirements.

The longitudinal center of the source is positioned exactly 2 mm from the film. An optional spacer can be obtained to also position the source 5 mm from the film. The phantom offers optional source blocks for each manufacturer's sources.



Ease of operation is provided by the dual springs on the upper support plate which provide even tensioning and hold the source block and spacer flush against the film during exposure.



After exposure, the developed film can be visually inspected or scanned to provide evaluation of source strength and uniformity, identification of inactive sources, and evaluation of source attenuation at 2 mm and optional 5 mm, in a water equivalent plastic.



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Specifications for IVB Film Phantom, REF 91200

Material: Primarily cross-linked polystyrene which includes a housing to compress the parts, a source block to hold the catheter of the source train, and a polystyrene base to hold the film/block sandwich flat.

Overall size: 11.4 cm wide, 14.7 cm long, 7.4 cm high

Catheter Block: 10 cm wide by 14 cm long with 2 mm thickness of cross-linked polystyrene from center of catheter hole to bottom of block (film location). Optional buildup block provides 5 mm thickness from center of catheter to film. Bottom base (of polystyrene) provides at least 15 mm thickness below film to prevent scatter when used with beta sources.

	Operating Conditions:	Storage Conditions:
Temperature:	10 to 40°C	-15 to 50° C
Relative Humidity:	20 to 80%, non-condensing	0 to 95%, non-condensing

Product Reference Numbers:	
REF 91200	IVB Film Phantom
REF 70616	Block for Novoste Sources
REF 70617	Block for Cordis Sources
REF 70620	3 mm Build Up Block