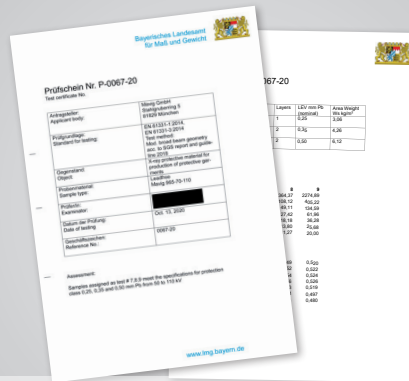
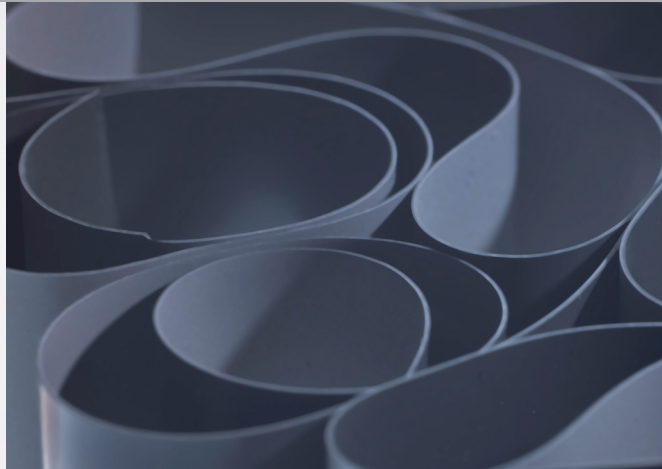


# Leadfree Radiation Protection Material



A test certificate for lead equivalent determination is available and can be provided if required.



Leadfree



Pollutant-free



Customary Quality Standards



MAVIG Leadfree is a new, weight-improved material. Bismuth and other radiation-absorbing additives with low specific weight have been used to substitute lead. **After an intense period of research, MAVIG has managed to achieve the same protective properties as on the well-established Novalite® lead composite material.** Key to this success are the quantity, quality and combination of the chemical substances!

## MAVIG Leadfree – the addition to standard lead and Novalite® material

- No fluorescence radiation thanks to patented, two-layer construction
- Lead equivalent according to IEC 61331-1:2014 / DIN EN 61331-1:2016
- Approved radiation protection for the X-ray tube voltage range of 50 – 110 kV
- Surface area weight lower than the proven Novalite® material
- Ideal for workplaces with long wearing times of protective clothing
- Fulfilment of basic work-related physiological requirements (such as smoothness, durability, weight optimisation, etc.)
- Toxically harmless

### Degrees of protection and weights per unit of area of MAVIG radiation protection inner materials

Protective material	Weight/area	Lead equivalent	50 kV	70 kV	90 kV	110 kV	150 kV
Standard lead	3.30 kg/m <sup>2</sup>	0.25 mmPb	99 %	96 %	91 %	87 %	80 %
Standard lead	4.60 kg/m <sup>2</sup>	0.35 mmPb	> 99 %	98 %	95 %	92 %	87 %
Standard lead	6.60 kg/m <sup>2</sup>	0.50 mmPb	> 99 %	99 %	97 %	95 %	92 %
Novalite 0.25	3.00 kg/m <sup>2</sup>	0.25 mmPb	99 %	96 %	92 %	87 %	-
Novalite 0.35	4.30 kg/m <sup>2</sup>	0.35 mmPb	> 99 %	98 %	95 %	91 %	-
Novalite 0.50	6.00 kg/m <sup>2</sup>	0.50 mmPb	> 99 %	99 %	97 %	95 %	-
<b>Leadfree</b>	<b>2.95 kg/m<sup>2</sup></b>	<b>0.25 mmPb</b>	<b>99 %</b>	<b>96 %</b>	<b>91 %</b>	<b>85 %</b>	<b>-</b>
<b>Leadfree</b>	<b>4.18 kg/m<sup>2</sup></b>	<b>0.35 mmPb</b>	<b>&gt; 99 %</b>	<b>98 %</b>	<b>94 %</b>	<b>92 %</b>	<b>-</b>
<b>Leadfree</b>	<b>5.89 kg/m<sup>2</sup></b>	<b>0.50 mmPb</b>	<b>&gt; 99 %</b>	<b>99 %</b>	<b>97 %</b>	<b>95 %</b>	<b>-</b>

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