Calibration Service -Radiation Qualities

Q	Filter mm	S, mm	a cm	F cn	1	k ₀	6.						
A/60	2.4AJ+0.6Cu	0.215Cu	400	30		1,02	+/-2.5%						
A80	2,4AI+2,0Cu	0.540Cu	400	30	2	1,00	+/-2.5%						
A100	2.4AI+5.0Cu	1.05Cu	400	30	0	1,00	+/-2.5%						
A150	2.4AI+2.5Sn	2.45Cu	400	30		1,01	+/-2.5%						
A200	2.4Al+2Cu+3Sn+1Pb	4.10Cu	400	30	~		110.00	1					
A250	2.4Al+2.0Sn+3.0Pb	5.50Cu	400	31	Radiatio	on qualities:							
G beam quality (the number indicating this back voltage). The first trials filter (interest and additional filter) of the state of the					Q	Fiter		S ₁ mm	a cm	F cm	ko	ε	
					DV70	2.5AI		2.20Al	50	2.0 x 3.5	1,06	+/-5%	
					DV90	2.5Al		3.00Al	50	2.0 x 3.5	1,02	+/-5%	
					DV120	2.5Al		3.60AI	50	2.0 x 3.5	1,00	+/-5%	
					DV150	2.5AI		4.60Al	50		0,99	+/-5%	
					DN70	23.54		6.70Al	50	2.0 x 3.5	0,96	+/-5%	
					DN90	32.5/		9.14Al *	50	2.0 x 3.5	0,96	+/-5%	
M : Display reading (in C)				share	DN120	42.5/		11.55AI	50	2.0 x 3.5	1,00	+/-5%	
kp :	air density correction			under	DN150	50.04	d .	13.34AI	50	2.0 x 3.5	1,03	+/-5%	
contraction contributed why one registration of the man in tall except with this certificate is valid only with the instantion chambles showing the int this certificate is a valid only with the instantion chambles showing the interest contribution factors of chambles thaving been opined for repair are not certification without agrituture are not valid.						Fiber, total fiber (inherent and additional fiber) - hat visible year of the point of monsurement - total distance between source and point of measurement - total distance between source and point of measurement - heat size a lipsort of calibration N _g calibration paint of calibration - violential provided of the calibration of the calibration fister - violential paint correction - violential paint correction - violential paint calibration fister - violential fister calibration f					ocoble standard deviation (h-2). The standard deviation was calculated according to WECO Doc. 19 from the partial uncertainties arisin from the normal used, the calculation procedure, the environmental conditions and also deviated to the calculation of the calculations of the calculations of the calculation of the c		
					The calibration is traceable to national standards of the German National Laboratory, PTB, Braunschreig, calibration certificate may not be reproduced other than in full except with the permission of the issuing ballor This certificate is said cody with the innestation between behaviory the intest scholar with the certificate number, calibration factors of chambers having been opened for repair are not comparable to provious calibrations, certificates without signature are not valid.							ssuing laborate cate number. T	

A variety of ionizing radiation beam quality sets for different applications is available **Radiation Therapy Dosemeters**

- X-rays 10, 15, 30, 50, 70 kV

(T qualities according to DIN 6817)

70, 100, 140, 200, 280 kV - X-rays (T qualities according to DIN 6817)

- 137Cs 662 keV

1.3 MeV

- 60Co

Diagnostic Radiology Dosemeters 50, 70, 90, 120, 150 kV Conventional

(RQR and RQA qualities according to IEC 61267)

70, 90, 120, 150 kV

(RQR and RQA qualities according to IEC 61267)

100, 120, 150 kV (RQT qualities according to IEC 61267)

50, 70, 90 kV Dental - X-rays

- X-rays 25, 28, 30, 35 kV Mammography

(RQR-M and RQA-M qualities according to IEC 61267 Mo/Al, Mo/Rh, Rh/Rh, W/Ag, W/Al, W/Mo, W/Rh

Radiation Protection Dosemeters 20, 30, 40 kV

- (Narrow Spectrum Series (N) qualities acc ISO 4037-1)
- 60, 80, 100, 150, 200, 250 kV - X-rays
- (Narrow Spectrum Series (N) qualities acc ISO 4037-1) 662 keV
- 60Co 1.3 MeV

Miscellaneous Calibrations

- Source strength (cGym²h⁻¹) of brachytherapy sources measured by well-type chambers
- Diagnostic X-ray generator high voltage of all types of X-ray equipment measured non-invasively by kV-meters: Different ranges from 20 to 150 kV
- Nuclide activity in nuclear medicine measured by isotope calibrators (only CURIEMENTOR instruments)
- Electrical measuring quantities charge (C) and current (A) measured by highly sensitive electrometers

General Information

According to the PTW definition, each such set of beam qualities represents one calibration point for a certain application and can be ordered with a single order number.