

## STUK X-ray qualities

X-ray system:

-W anode, angle 20°

-Inherent filtration: 3 mm Be (0,3 mm Al ISO N / ISO H ≥ 80 kV)

Quality	Tube voltage (kV)	Additional filtration				1. HVL		Mean energy (keV)
		Al (mm)	Cu (mm)	Sn (mm)	Pb (mm)	Al (mm)	Cu (mm)	
<b>ISO N -series (ISO 4037:2019)</b>								
ISO N-10*	10	0.1	-	-	-	0.06	-	8.5
ISO N-15*	15	0.5	-	-	-	0.2	-	12.7
ISO N-20	20	1.0	-	-	-	0.4	-	16.4
ISO N-25	25	2.0	-	-	-	0.7	-	20.4
ISO N-30	30	4.0	-	-	-	1.2	-	24.7
ISO N-40	40	4.0	0.2	-	-	2.8	-	33.3
ISO N-60	60	4.0	0.6	-	-	-	0.2	48.0
ISO N-80	80	3.9	2.0	-	-	-	0.6	65.2
ISO N-100	100	3.9	5.0	-	-	-	1.1	83.3
ISO N-120	120	3.9	5.0	1.0	-	-	1.7	100
ISO N-150	150	3.9	-	2.5	-	-	2.4	118
ISO N-200	200	3.9	2.0	3.0	1.0	-	4.1	165
ISO N-250	250	3.9	-	2.0	3.0	-	5.2	207
ISO N-300	300	3.9	-	3.0	5.0	-	6.1	248
* available only upon special request								
<b>ISO H -series (ISO 4037:2019)</b>								
ISO H-10*	10	-	-	-	-	0.05	-	8
ISO H-20*	20	0.08	-	-	-	0.1	-	14
ISO H-30	30	0.42	-	-	-	0.4	-	20
ISO H-60	60	3.2	-	-	-	2.4	-	37
ISO H-100	100	4.0	0.2	-	-	-	0.3	57
ISO H-200	200	4.0	1.2	-	-	-	1.7	102
ISO H-250	250	4.0	1.6	-	-	-	2.5	122
ISO H-300	300	4.0	2.5	-	-	-	3.3	147

Quality	Tube voltage (kV)	Additional filtration		1. HVL	
		Al (mm)	Cu (mm)	Al (mm)	Cu (mm)
<b>RQR-series (IEC 61267:2005)</b>					
RQR 2	40	2.5	-	1.4	-
RQR 3	50	2.5	-	1.8	-
RQR 4	60	2.8	-	2.2	-
RQR 5	70	2.9	-	2.6	-
RQR 6	80	3.0	-	3.0	-
RQR 7	90	3.3	-	3.5	-
RQR 8	100	3.4	-	4.0	-
RQR 9	120	3.8	-	5.0	-
RQR 10	150	4.5	-	6.5	-
<b>RQT-series (IEC 61267:2005)</b>					
RQT 8	100	3.4	0.2	7.1	-
RQT 9	120	3.8	0.3	8.5	-
RQT 10	150	4.4	0.3	10.3	-
<b>MAM-series (non-standard qualities)</b>					
MAM 25	25	0.5	-	0.3	-
MAM 28	28	0.5	-	0.4	-
MAM 30	30	0.5	-	0.4	-
MAM 35	35	0.5	-	0.5	-
<b>KAPTER- series (custom made qualities)</b>					
KAPTER 1	90	2.5	0.1	4.9	-
KAPTER 2	85	2.5	0.3	6.8	-
KAPTER 3	84	2.5	0.5	7.8	-
KAPTER 4	120	2.5	0.5	9.9	-
KAPTER 5	85	2.5	1.0	9.4	-

**CCRI X-ray qualities\* (BIPM)**

BIPM 25	25	0.4	-	0.3	-
BIPM 30	30	0.2	-	0.2	-
BIPM 50a	50	4.0	-	2.3	-
BIPM 50b	50	1.0	-	1.1	-
BIPM 100	100	3.6	-	4.1	-
BIPM 135	135	2.4	0.2	-	0.5
BIPM 180	180	2.2	0.5	-	1.0
BIPM 250	250	2.2	1.6	-	2.4

\* available only upon special request