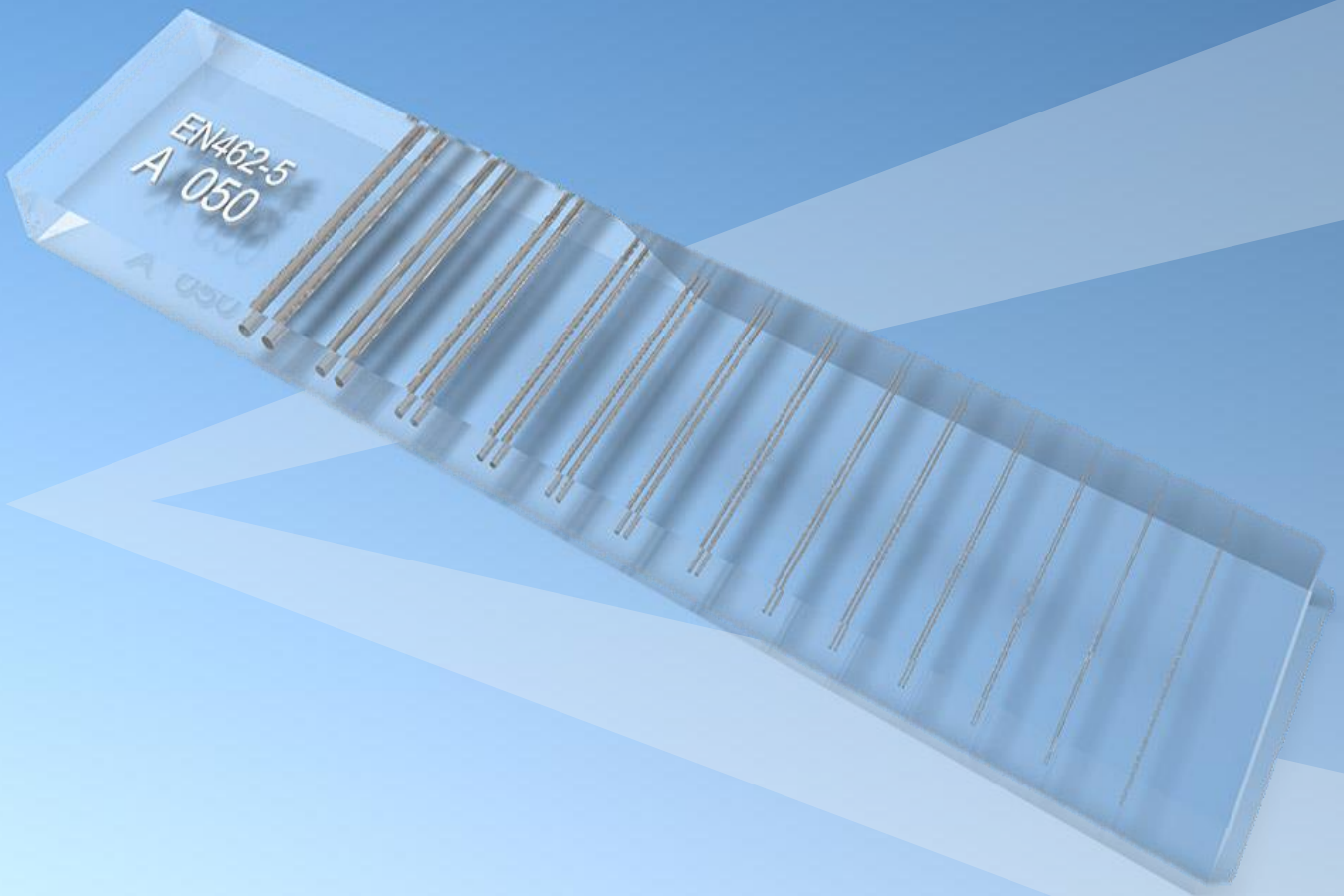




Duplex Wire IQI

Duplex Wire Image Quality Indicator (IQI) from RTUTec is especially designed for radiography applications according to current industry standards with X-ray film, Digital Radiography (DDAs) and Computed Radiography (CR) imaging plates. The duplex wire IQI is used to evaluate image unsharpness and spatial resolution as well as for determination of focal spot sizes.



Dimensions: 15mm x 70mm x 4 mm

Plate Material: PMMA (Lucite)



Technical Data and Materials

- 13 groups of wire pairs (from 1D to 13D) embedded in PMMA
- groups 1D - 3D made of tungsten
- groups 4D - 14D made of platinum
- diameter of wires / spacing between wires ranges from 0.050 to 0.800mm

IQI Duplex Wire is compliant with current industry standards:

- ISO 19232-5
- EN 462-5
- ASTM E2002-99 Duplex IQI
- EN 13068 (Radioscopy)
- EN 14784 and ISO 13671 (CR - Computed Radiography with imaging plates)
- ISO 17636-2 (digital radiography of welds - flat panel detectors)
- ASTM E 2597 (characterization of digital detector arrays)

The kit includes:

- Duplex wire IQI Gauge
- User manual, including guidelines for carrying out each test, results assessment and registration.
- A calibration / test certificate, according to ASTM E 2002 and ISO 19232-5

Partial Test Certificate Sample

	Nominal [mm] (tolerance)	1st wire diameter [mm] (diff. from nom.)	space width [mm] (diff. from nom.)	2nd wire diameter [mm] (diff. from nom.)
1 D	0.800 (+/- 0.02)	0.802 (+0.002)	0.810 (+ 0.01)	0.803 (+ 0.003)
2 D	0.630 (+/- 0.02)	0.610 (- 0.02)	0.610 (- 0.02)	0.610 (- 0.02)
3 D	0.500 (+/- 0.02)	0.500 (+/- 0.0)	0.501 (+ 0.001)	0.499 (- 0.01)
4 D	0.400 (+/- 0.01)	0.410 (+ 0.01)	0.404 (+ 0.004)	0.407 (+ 0.007)
5 D	0.320 (+/- 0.01)	0.318 (- 0.02)	0.315 (- 0.005)	0.320 (+/- 0.0)
6 D	0.250 (+/- 0.01)	0.240 (- 0.01)	0.252 (+ 0.002)	0.240 (- 0.01)
7 D	0.200 (+/- 0.01)	0.210 (+ 0.01)	0.204 (+ 0.006)	0.198 (- 0.002)
8 D	0.160 (+/- 0.01)	0.161 (+ 0.001)	0.162 (+/- 0.002)	0.160 (+/- 0.0)
9 D	0.130 (+/- 0.005)	0.132 (+ 0.002)	0.128 (- 0.002)	0.131 (+ 0.001)
10 D	0.100 (+/- 0.005)	0.103 (+ 0.003)	0.102 (+ 0.002)	0.103 (+ 0.003)
11 D	0.080 (+/- 0.005)	0.081 (+ 0.001)	0.078 (- 0.002)	0.082 (+ 0.002)
12 D	0.063 (+/- 0.005)	0.061 (- 0.002)	0.060 (- 0.003)	0.066 (+ 0.003)
13 D	0.050 (+/- 0.005)	0.052 (+ 0.002)	0.050 (+/- 0.0)	0.051 (+ 0.001)

Measurements done by:

Checked by:

.....
QA and measurements specialist

.....
Managing director



Made in the EU