

Digital radiografering med DDA panøler

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Kiwa Inspecta

Trust
Quality
Progress



Vad kan vi röntga på från vilken tjocklek

Uplösning Novo 12 HRN = D12 75 μm



NOVO 12HRN	
Dimensions	6.8" x 9.0" (17.3cm x 22.9cm)
Active Area	74% Active Area
Weight	5.3 lbs. (2.4kg)
Capacity	660 lbs. (300kg)
Height	27.5" (70cm)
Thickness	1.1" (27.5mm)
Resolution	16 bit latest

Vad kan vi röntga på från vilken tjocklek

Uplösning Novo 22 WN = D9 139 μm



NOVO 22WN
9.4 lbs. (4.3kg)

NOVO 22WN

14.0" x 16.8"
(35.6cm x 42.7cm)

85% Active Area

9.4 lbs. (4.3kg)

660 lbs. (300kg)

20" (50cm)

0.6" (15.6mm)

16 bit latest generation

Over 100K rem*

Vad kan vi röntga på från vilken tjocklek

Uplösning Novo 12 HRN = D12

Table B.14 — Maximum image unsharpness for all techniques, testing class B

Testing class B: Duplex wire ISO 19232-5		
Penetrated thickness w^a mm	Minimum IQI value and maximum unsharpness (ISO 19232-5) ^{b,c} mm	Maximum basic spatial resolution (equivalent to wire thickness and spacing) ^{b,c} SR_b^{detector} mm
$w \leq 1,5$	D 14 (D 13+) ^d 0,08	0,04
$1,5 < w \leq 4$	D 13 0,10	0,05
$4 < w \leq 8$	D 12 0,125	0,063
$8 < w \leq 12$	D 11 0,16	0,08
$12 < w \leq 40$	D 10 0,20	0,10
$40 < w \leq 120$	D 9 0,26	0,13
$120 < w \leq 200$	D 8 0,32	0,16
$w > 200$	D 7 0,40	0,20

^a For double-wall technique, single-image, the nominal thickness, t , shall be used instead of the penetrated thickness, w .

^b The IQI reading for system selection (see Annex C applies for contact radiography. If the geometric magnification technique (see 7.7) is used, the IQI reading shall be performed in the corresponding reference radiographs.

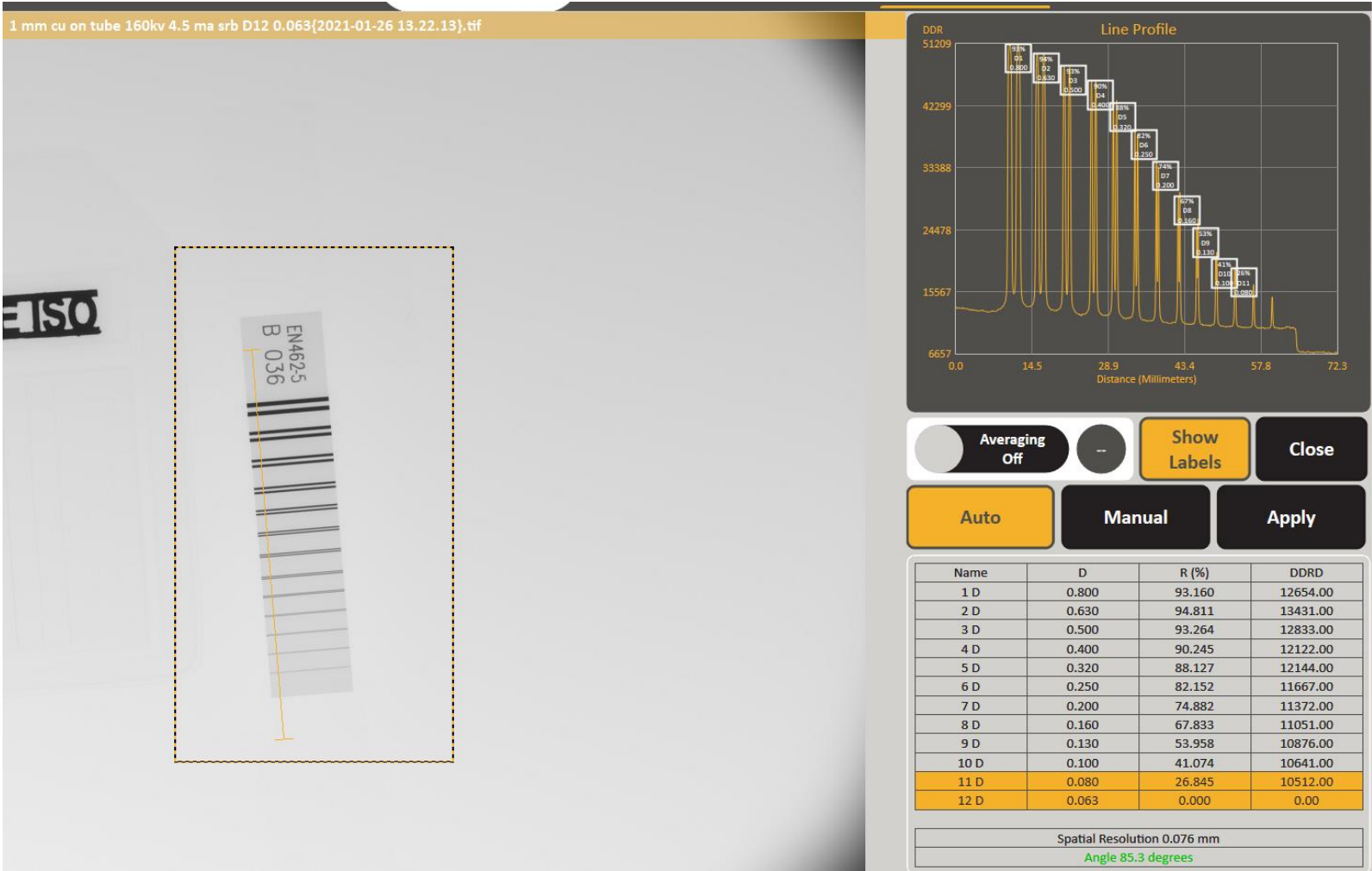
^c If magnification, v , is > 1.2 , then SR_b^{image} shall be used instead of SR_b^{detector} .

^d D 13+ is achieved if the duplex wire pair D 13 is resolved with a dip larger than 20 %.

NOTE The duplex wire IQIs can be used effectively with tube voltages up to 600 kV. The wire pairs > 13 can be used effectively at tube voltages lower than 225 kV. When using source voltages in the megavolt range, it can be possible that the results will not be completely satisfactory. SR_b^{detector} values can be determined but it will be difficult to measure SR_b^{image} values.

BSR 12D

Novo 12 HRN = D12

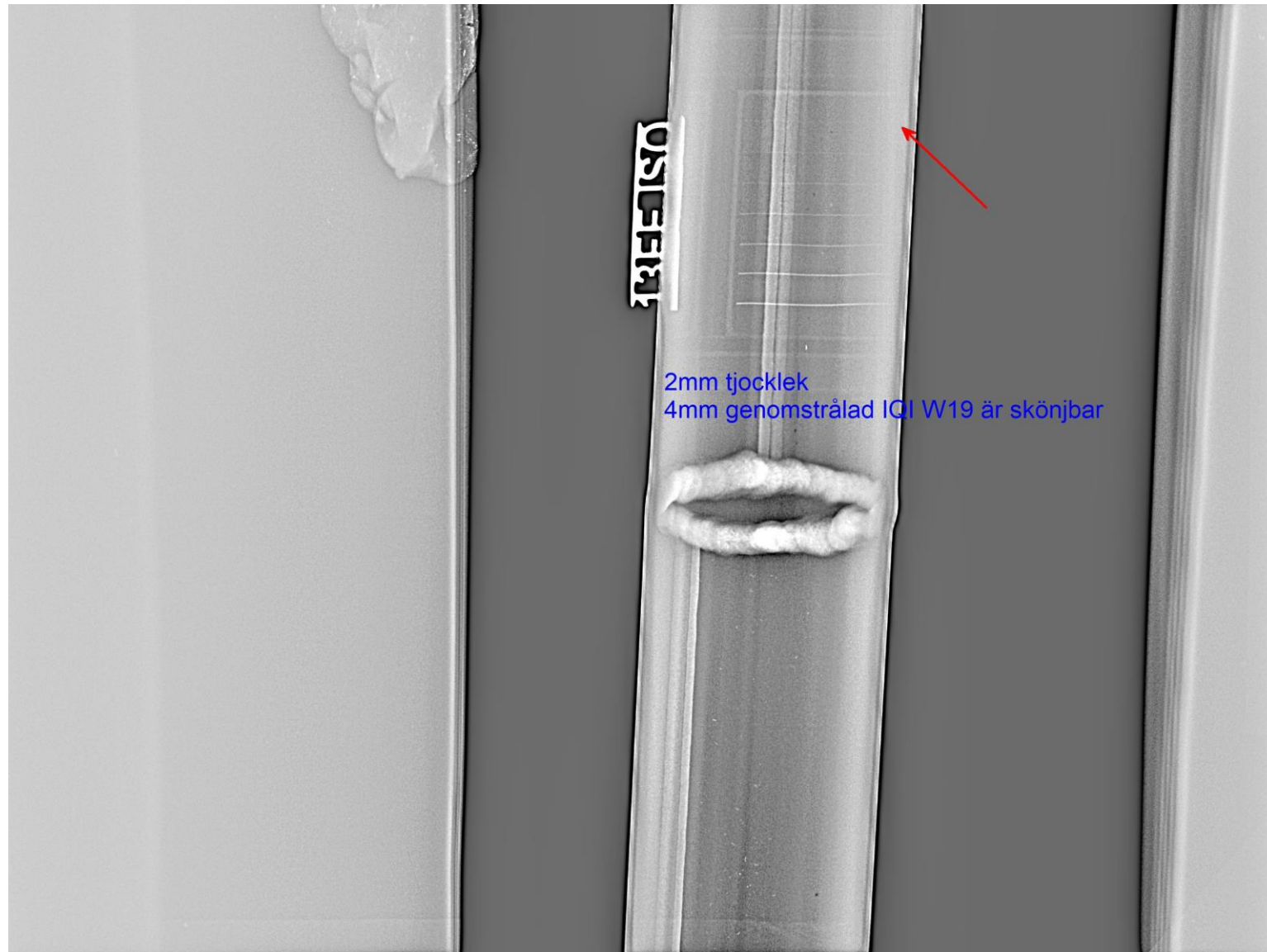


Kompensation med hjälp av IQI

Double-wall technique, single or double image, IQI on detector side
Table B.11 — Wire IQI

Minimum IQI values for testing class B				
Penetrated thickness w mm				IQI value ^a
		to	1,5	W 19
above	1,5	to	2,5	W 18
above	2,5	to	4	W 17
above	4	to	6	W 16
above	6	to	12	W 15
above	12	to	18	W 14
above	18	to	30	W 13
above	30	to	45	W 12
above	45	to	55	W 11
above	55	to	70	W 10
above	70	to	100	W 9
above	100	to	180	W 8
above	180	to	300	W 7
above	300			W 6

Kompensation med hjälp av IQI



DDA utrustning i dagsläge



DDA utrustning i dagsläge



DDA med surfplatta eller telefon



DDA med batteridrift eller elverk



DDA semitrådlöst med combox



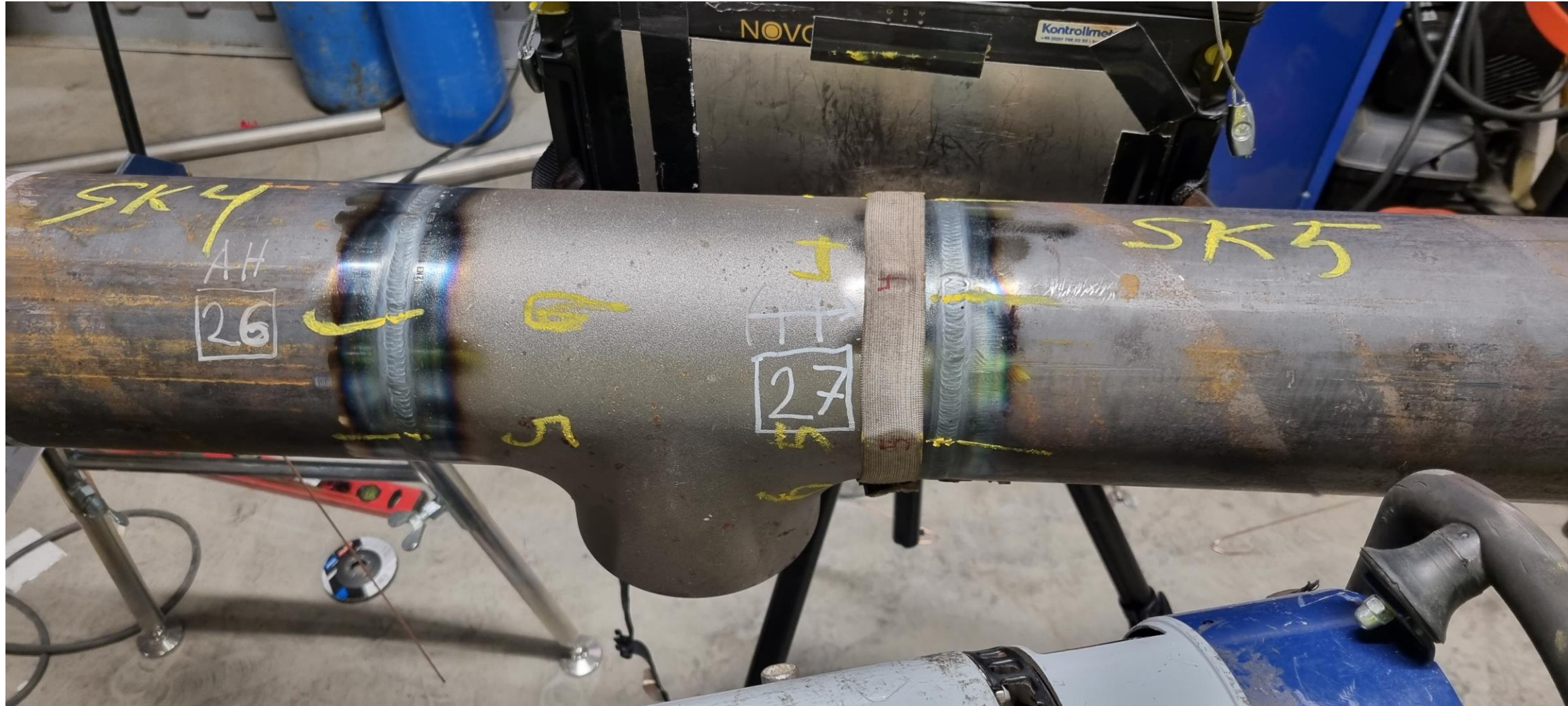
DDA Slitsbländare reducera strålning



DDA Slitsbländare reducera strålning



DDA Riggning med kamerastativ



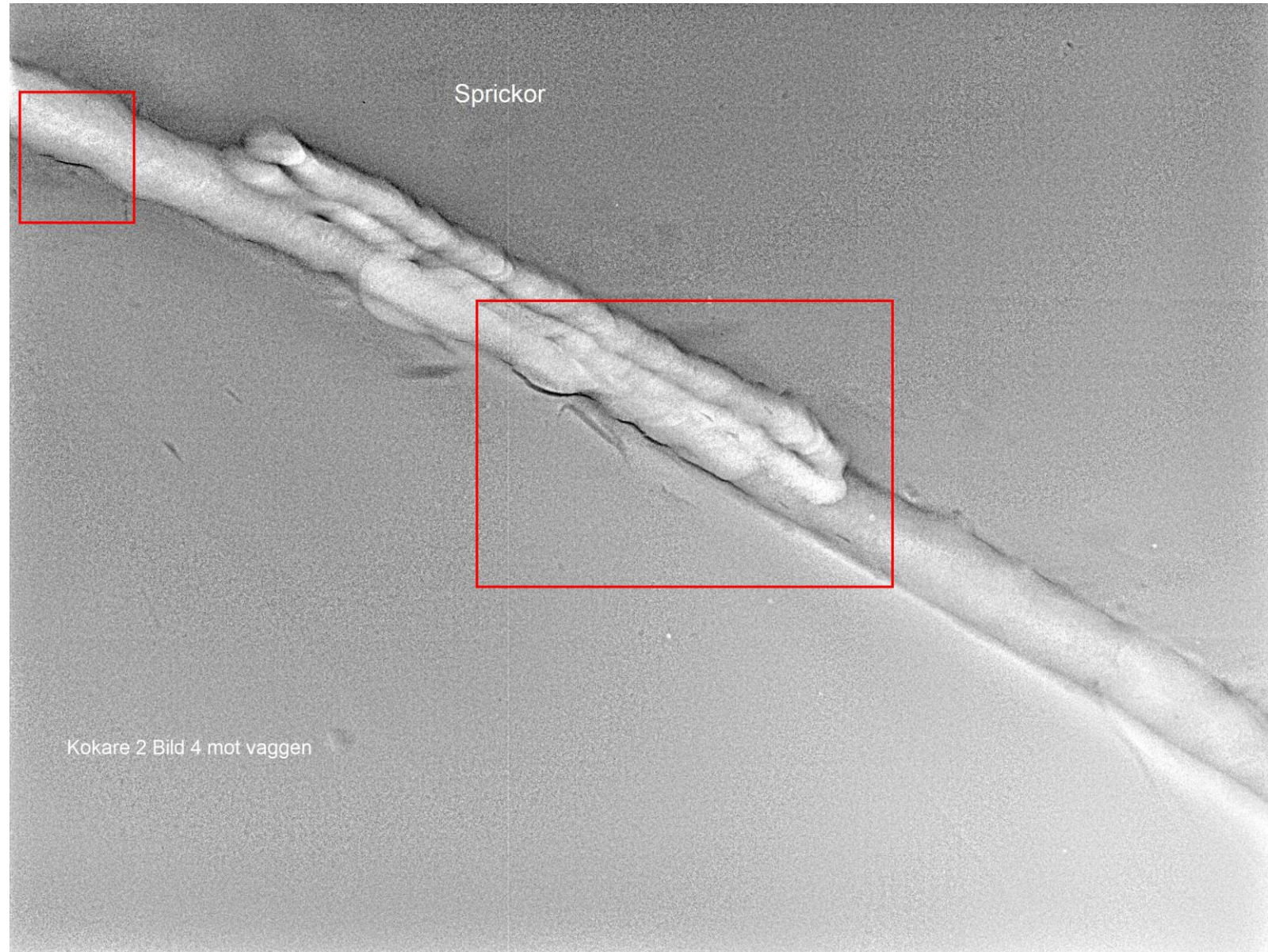
När man glömmet kamerastativet hemma



DDA leta defekter befintlig ledning



DDA leta defekter befintlig ledning



DDA leta defekter befintlig ledning (lite trångt)



DDA leta defekter befintlig ledning



Tack för visat intresse.

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