

Radiography Calculations

Sensitivity & Ug Based on AS2177 - 2006



ATTAR

Advanced Technology Testing and Research

Ir-192 Exposure Calculator (Fe)

Activity Units\*

Curie (Ci)

1 Ci = 37GBq

Activity

20

Thickness (mm)

10

▲

▼

Film\*

D7

SFD (mm)

700

Density\*

2.5

F Factor

1.00

Hours0

Minutes6

Seconds29

"FFactor" is used to account for variations  
in Processing , Screen and Film Combinations

Ir-192 Activity

Initial Activity

50

Days of Decay

2

New Activity

49.1

Wire IQI Sensitivity

Wire Visible\*

16

Material Thickness

10

Sensitivity %

1.00

Note: Single Wall Thickness is to be used for all Sensitivity Calculations

Geometric Unsharpness Calculator

Method\*

XR 3 , GR 1 & 2

Source Size (mm)

1.5

Thickness (mm)

50

Minimum SFD (mm)

237.5

Max Ug

0.4

Film Offset

0

Note: S and DWS, calculated on Single Wall Thickness.  
DWD, Calculated on Outside Diameter.

\* = Click For Drop Down Menu

Created By: Paul Grosser

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