

Prodis CsI X-Ray Detector Characterization. Application 1 (IFFC)



ПРОДИС.НДТ
ПРОМЫШЛЕННЫЕ ДИАГНОСТИЧЕСКИЕ СИСТЕМЫ И ТЕХНОЛОГИИ

28-Jan-2021

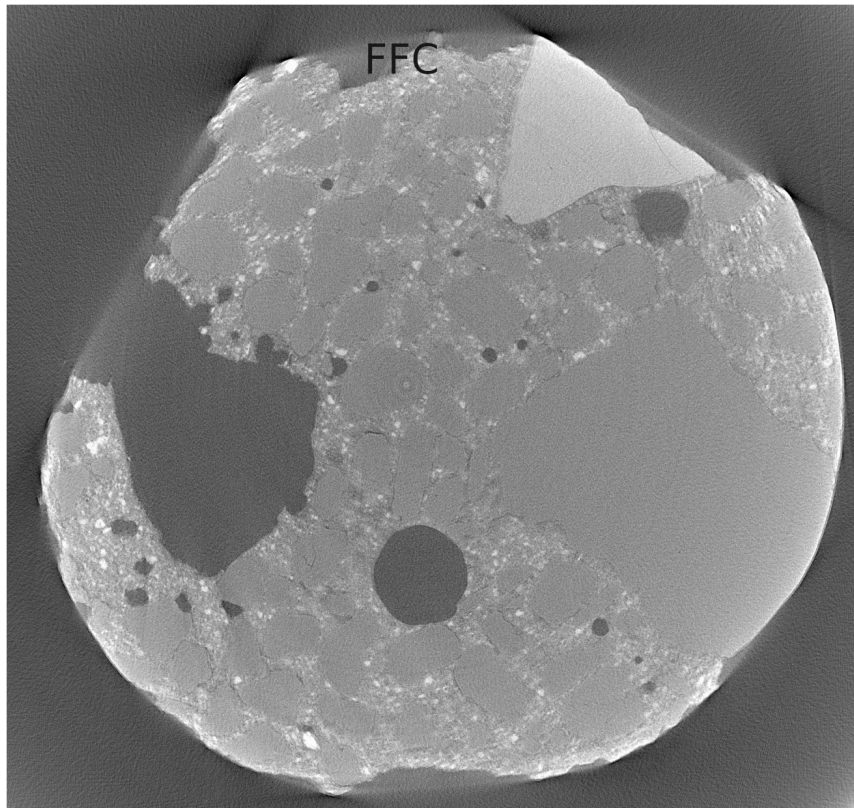
Table 1. Tomography configuration

SDD	448.4 mm
SID	32.49 mm
M	13.8
Vox Size	3.57 μ m
HV	120 kV
Current	50 mA
Focus size	Small (8 μ m)
Exposure	450 ms
Shots	720
Rotation Step (deg)	0.5
Avg	10
FFC avg	200
Preprocessing	ffc/iffc

Table 2. IFFC Configuration

Filters set	al-1mm al-2mm al-3mm al-4mm al-5mm al-6mm al-7mm al-8mm al-9mm
FFC avg	200

mean 0.272 std 0.023 (8.38 %)



mean 0.217 std 0.023 (10.41 %)

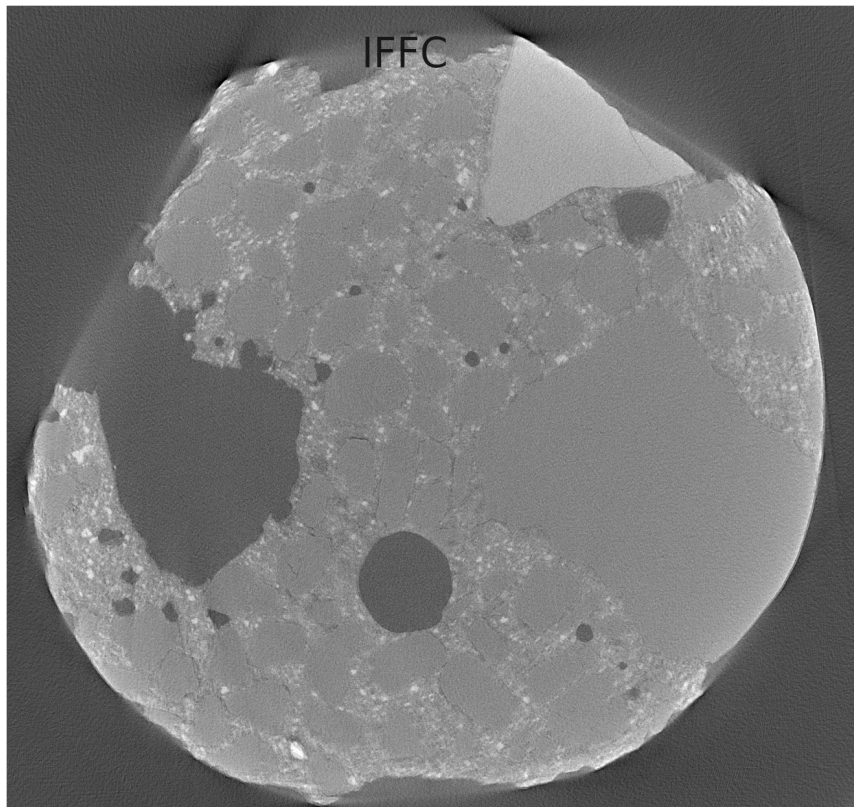


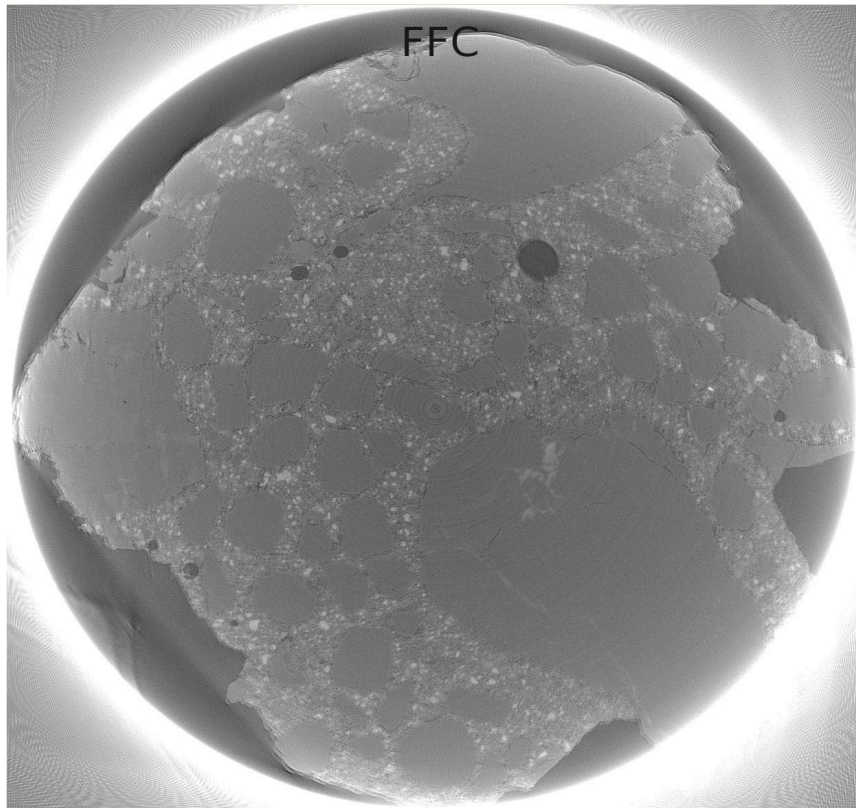
Table 3. Tomography configuration

SDD	448.4 mm
SID	20.13 mm
M	22.27
Vox Size	2.22 um
HV	70 kV
Current	50 mkA
Focus size	Small (5 um)
Exposure	2000 ms
Shots	1440
Rotation Step (deg)	0.25
Avg	5
FFC avg	200
Preprocessing	ffc/iffc

Table 4. IFFC Configuration

Filters set	al-1mm al-2mm al-3mm al-4mm al-5mm al-6mm al-7mm al-8mm al-9mm
FFC avg	200

mean 0.180 std 0.020 (11.20 %)



mean 0.129 std 0.019 (14.85 %)

