miller-774-1

2/21/2018

lineup-1

-Energy from 41.991 to 61.332-

Master energy scan:

Escan 60.832 61.832 100 3; scan 2

ceo2-0221

* sync\_ct 5 1; scan 1; atten 0, ome 0
* sync\_ct 5 4; scan 2; atten 0, ome 0
* sync\_ct 5 4 ; scan 3; atten 0; ome 180
* darkfield; scan 4; atten 0; ome 180

multiruby-1

* slew\_ome 0 10 40 0.25; scan 1; atten 5; ome 0
* slew\_ome 0 360 1440 0.25; scan2; atten 4.5; ome 0

ti7-07

* take\_dic; snapshots folder; dic
* ff atten determination; scan 3; atten 6
* beam height 1
* continuous scan test, disp rate 1e-5 mm/s (10nm/s)
* Load 0 scan is 11
* Last scan finishing @ 2% was 37
* Scan 38 is after unload

ti7-10 (not polished outer radius)

* scan 1 mm above W wire
* do\_tomo\_scan\_layers 1 1 0; scans 1-5; dropped last bf (beam lost)
* do\_nf\_scan\_layers 5 0.15 0 ; scan 6; after beam had to turn mostab up two clicks
* 67 first good dic
* Attenuation check; scan 11
* ff\_continuous; scan 13-scan 63 (1.9619% strain from matlab)
* backed off to 80% - 450 MPa
* do\_nf\_scan\_layers\_w\_dic 5 0.15 0
  + scan 65
* do\_tomo\_scan\_layers; scans 70-74

ti7-12 (polished ti7-01 from UCSB)

* Sample arrangement: The surface painted @ CHESS is pointed at the DIC camera @ omega =0, DIC camera is outboard away from the ring (surface, white paint with flicked toner ink (seemingly okay)). UCSB DIC on opposite side (black mark)
* Black mark is BOTTOM in loading orientation. No. “12” is on TOP.
* The center of the sample was found by finding two points in the top and bottom of the curved portions of the gage with the same width (using ImageJ) and then moving to halfway in between these points
* We conducted some initial testing of the painted surface and it seems to be working okay, loaded up to 20N and the strains and loads linearly tracked
* do\_tomo\_scan\_layers 1 1 0; scan 6-10
* do\_nf\_scan\_layers 5 0.15 0; scan 11
* check ff atten; scan 16
* continuous\_ff; starting scan 18
  + load 0; scan 49
* do\_nf\_scan\_layers\_w\_dic 5 0.15 0; scan 50
* do\_tomo\_scan\_layers 1 1 0; scan 55’

ti7-11 (polished ti7-02 from UCSB)

* Sample arrangement: The surface painted @ CHESS is pointed at the DIC camera @ omega =0, DIC camera is outboard away from the ring (surface, white paint with flicked toner ink (seemingly okay)). UCSB DIC on opposite side (black mark, 3 ticks)
* Black mark is TOP in loading orientation. No. “11” is on TOP.
* Side IIII tragically contaminated with DIC paint, despite efforts to keep paint free.
  + DIC at least appears to be working okay.
* Sample center remained the same from previous loading condition.
* Do\_tomo\_scan\_layers 1 1 0; scans 1-5
* Mostab 5.12  5.25 to adjust mono
* 3:51 PM
* Do\_nf\_scan\_layers 5 0.15 0; scans 7-11
* Continuous\_ff; zero load scan 14
  + Bean loss @ 250 MPa (DIC SS), backed off to 80%, took DIC periodically and did not move
  + Scans 82-84: ic0 reading dropped to 12168; last scan scan 84 at load (1.07%); scan 85 at unload
* Do\_nf\_scan\_layers\_w\_dic 5 0.15 0; scan 86-90
* Do\_tomo\_scan\_layers 1 1 0; scan 91
* Sample returned to box.

ti7-05

* W wire glued on. Area of interest 1 mm above W wire. Ramsz set from 0.15 to 0
* Do\_nf\_scan\_layers 4 0.15 0; scan 1-4
* Do\_tomo\_scan\_layers 1 1 0; scan 5-9
* Continuous\_ff; zero load scan 11-68
* Do\_tomo\_scan\_layers 1 1 0; scan 69-73
* Do\_nf\_scan\_layers 4 0.15 0; scan 74-77