

Cz process:

name(id)
starting_material

powder receipt:

name(id)
created_by
creation_date
executed_by
execution_date
formula
total_mass
components:
+ component_1
- **formula**
- link_to_component
- **target_mass**
- **actual_mass**
- notes
+ component_2
...
treatments (opt):
+ thermal_treatment_1
- link_to_treatment
- notes
+ characterization_1
- link_to_characterization
- notes
+ thermal_treatment_2
...
notes

component:

formula
link_to_chem_db
treatments (opt):
+ thermal_treatment_1
- link_to_treatment
- notes
+ thermal_treatment_2
+ characterization_1
+ thermal_treatment_3
...
notes

thermal_treatment:

date
net_mass_before
crucible
brutto_mass_before
oven
atmosphere
ramps:
+ ramp_1
- rate/time
- temperature
- dwell_time
+ ramp_2
...
brutto_mass_after
net_mass_after
mass_loss [calculate in %]
notes