

DFS TD - Synthesis Drying ELN Data

This page describes the common particularities for the Synthesis Reaction tests

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Mapping Details

This spreadsheet has the mapping details for all Synthesis ELN data:

ELN Data

The following tables, extracted from the ELN spreadsheets, are used for the enrichment of the raw data.

The CSV files created are available on :

Path
...\\DATA\\[ENV]\\Rn\\Silica\\XML SILICA\\XML Synthesis\\PARSED_XML_SYNTHESIS\\Useful information

drying_raw_data_link

This table lists the links for the raw data files that need to be extracted from the Lab servers for each sample_id. It is used by the Python scripts **download_drying_*.py** (* stands for the scale: Telsa, Gunsan, 2500L, etc) and by **Talend jobs** responsible for getting files from Google Drive. It contains the following fields:

- unique_id
- study_id
- sample_id
- drying_file_link
- drying_equipment_name
- drying_scale_L

drying_eln_data

In the beginning of the Python scripts for **computing**, we extract the following values from the file **drying_eln_data.csv**. Each of the following values will be used in later computations as constants:

Constant name	Formula
silica_mass_outlet_kg	The value of the column [drying_total_product_mass_kg] for the sample_id
trial_start	The value of the column [drying_start_hour] for the sample_id
trial_end	The value of the column [drying_end_hour] for the sample_id
dry_extract_percentage_inlet	The value of the column [drying_slurry_dry_content_prct_w] for the sample_id
dry_extract_percentage_outlet	The value of the column [drying_dry_content_prct_w_powder] for the sample_id
sulfate_content_percent	The value of the column [drying_sulfates_powder_prct_w] for the sample_id