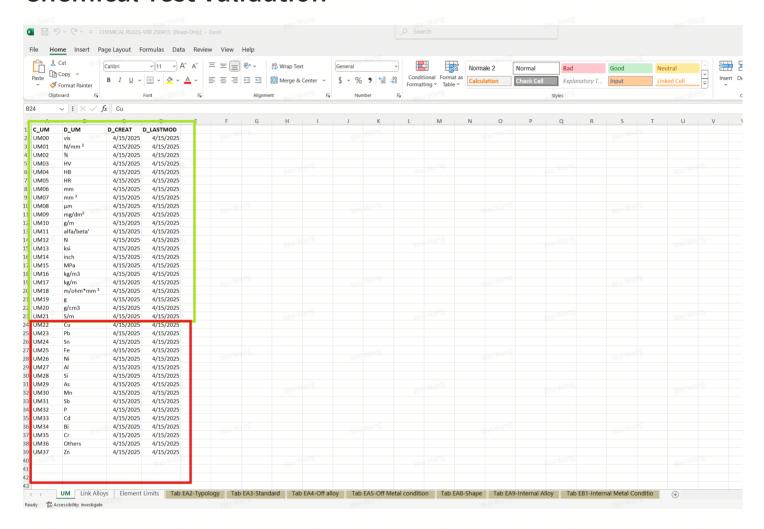
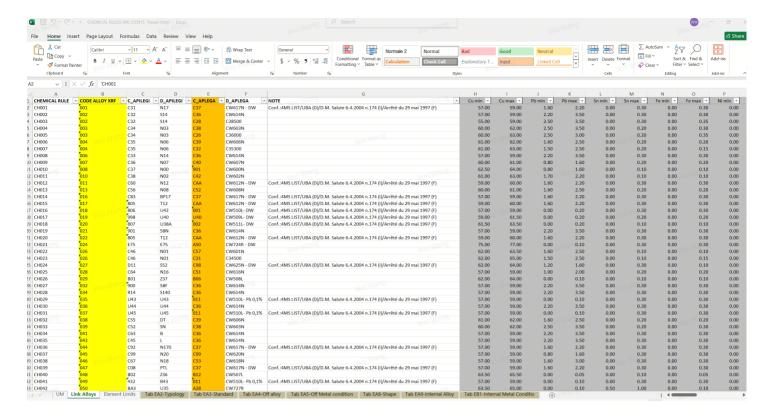
## How to validate Chemical/Mechanical results

## **Chemical Test Validation**



Green part means the mechanical test units, column A means the corresponding codes
Red part means the chemical composition, column A means the corresponding codes.
Saved in the system as masterdata.



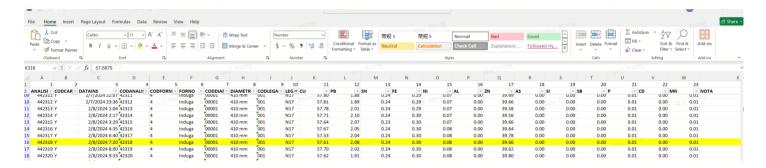
Column A means the corresponding rules name, one alloy can have more rules.

Column B means the alloy code in the labor devices

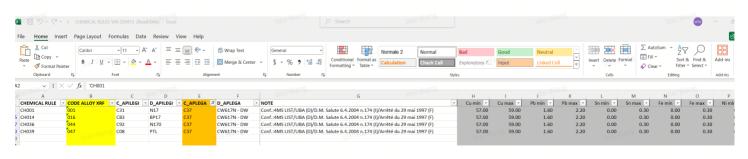
Column C means internal alloy code

Column D means the internal alloy description code

Column E means the official alloy code

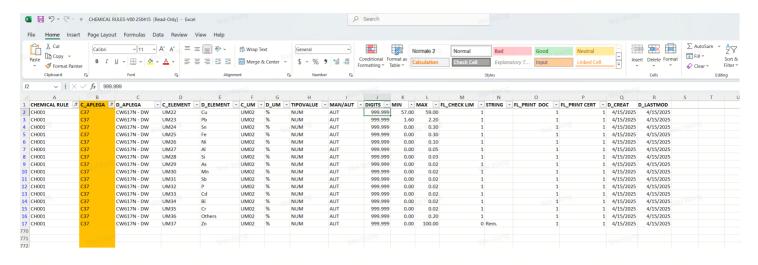


When a chemical analyze result comes, the alloy code in the labor device is 001 (cell I16), then we search 001 in the below table Column B (link alloys), it refers to chemical rules CH001



Then in sub-table element limits, under CH001, the corresponding tested elements and range are shown.

Logic: 001 (Code alloy xrf)=> CH001 (chemical rule)



Column b: official alloy code,

Column c: description of the alloy

Column d: the chemical element code

Column E: chemical element

Column F: the code of the unit

Column G: unit

Column H: means the result is shown in number

Column I: the results will be transfered automatically

Column J: maximal digits

Column K and L, the tolerance

M: flag of the elements, 1 means the elements results should be shown

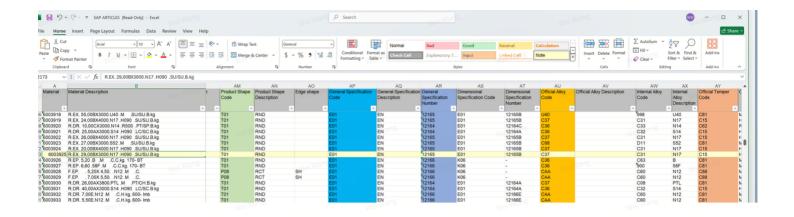
N: flag of elements, Rem. Means this elements results wont be be shown in number, rather in text Rem. (means remain)

O: flag of shown in internal report

P: flag of shown in certificate

## **Mechanical Test Validation**

When a material should be tested, the detailed material parameters are in SAP, we need article typology code (in this case B0), general specification code E01/ Product Shape Code T01/ Official alloy code C37/ Internal alloy description N17 to locate which kind of mechanical test we need to use

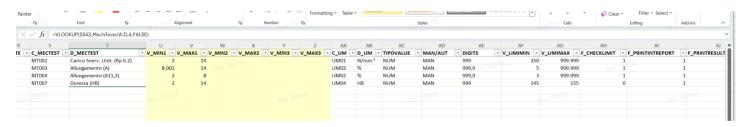


In this case, the mechanical test rule is ME0074,



The corresponding sub tests are shown below (drag/ press/ hardness)

Column U and V refers to dimention2 the name in SAP, WX are the dimention3 the name in SAP, YZ are the demention4 the name in SAP (size), column AF and AG refer to range.



All the mechanical test data should be input manually, the AUT in below means the units should be converted (e.g. mm into inch)

