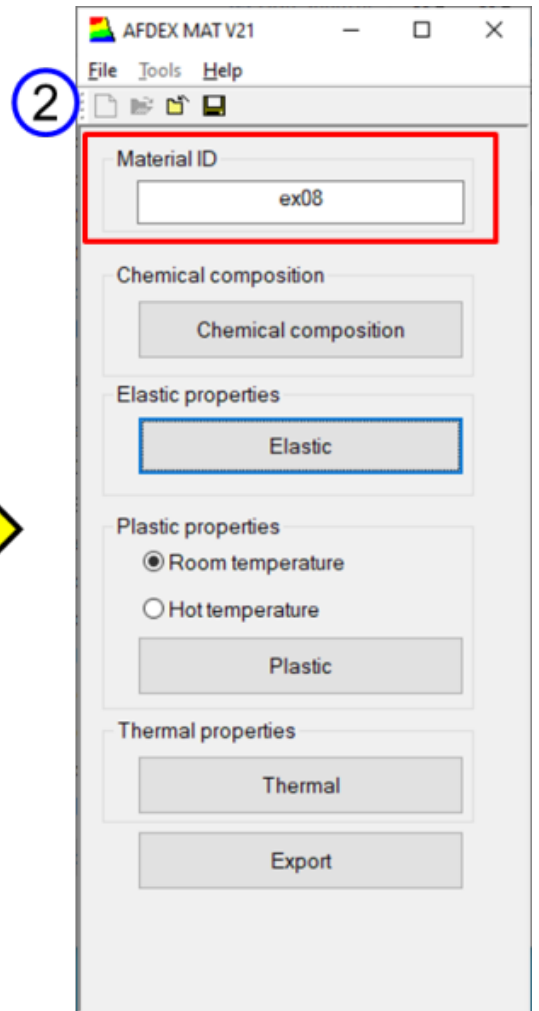
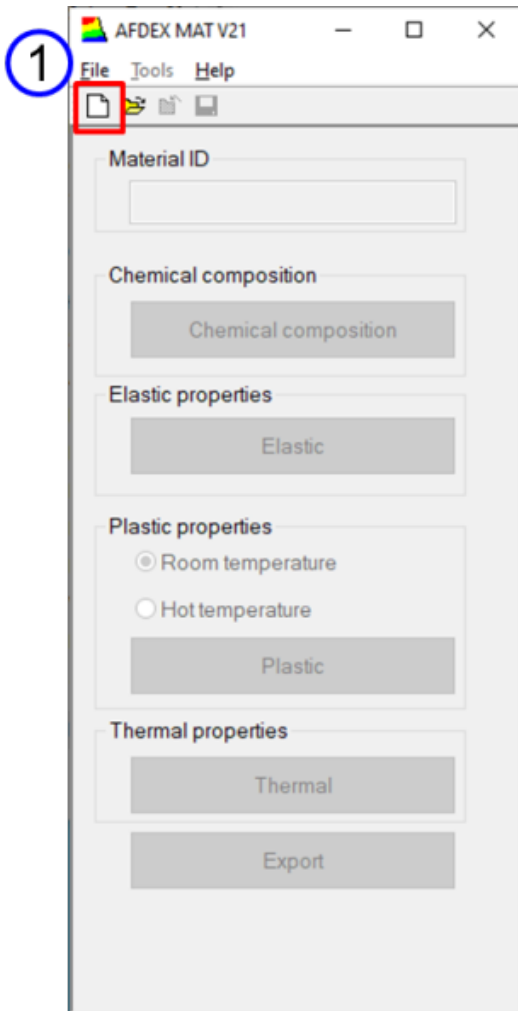


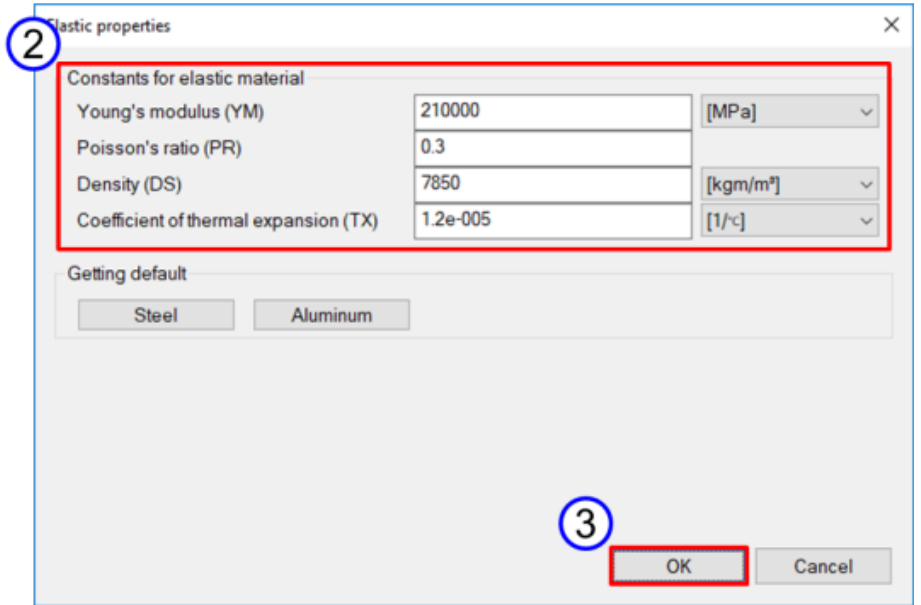
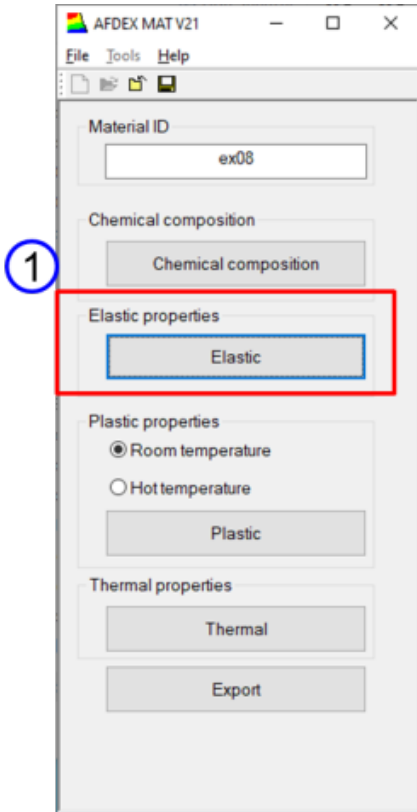
Ex09-2. Kn 3
AFDEX_MAT 3
..... 3
..... 4
..... 4
..... 5
..... 5
..... 6
..... 7
..... 8
..... 9

Ex09-2. Kn

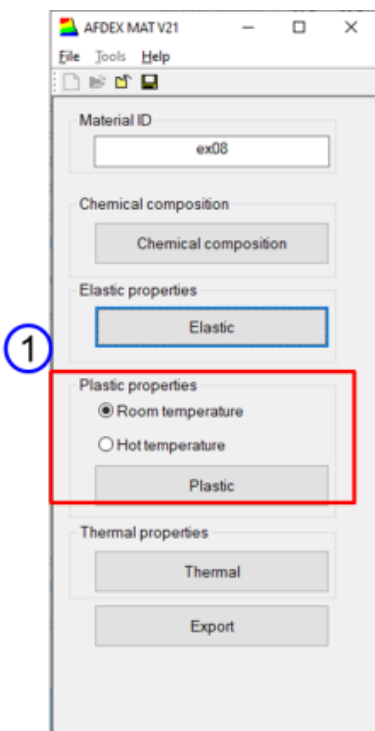
AFDEX_MAT



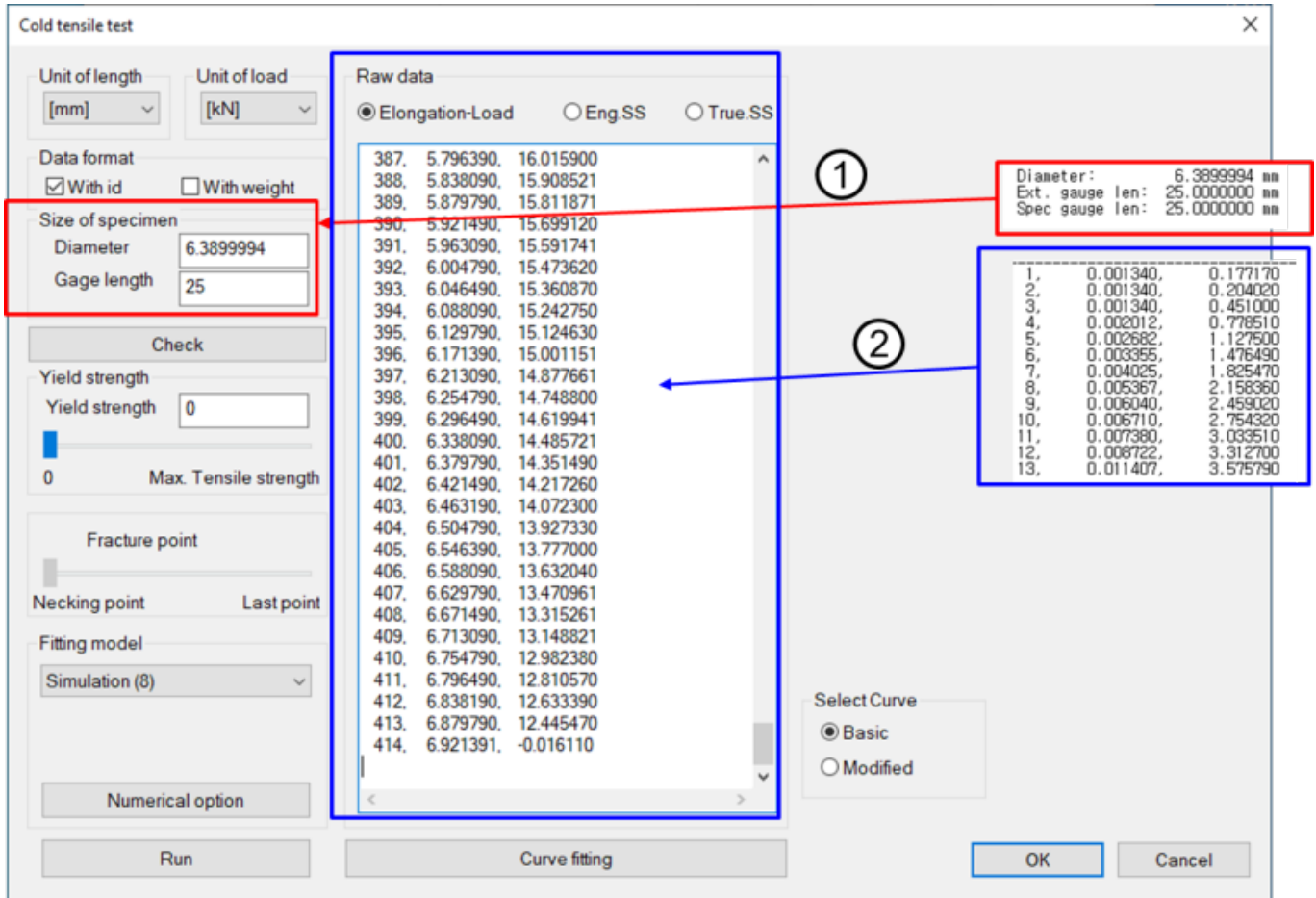
1. 'New'
2. Material ID ex08()



1. "ELASTIC"
- 2.
3. "OK"



- 1. Plastic properties “Room temperature” , “Plastic”
- 2. “ ex08.txt



- 1.
- 2. “Raw data”

1

Unit of length: [mm] Unit of load: [kN]

Data format: With id With weight

Size of specimen: Diameter: 6.3899994 Gage length: 25

2

3

4

Point	Strain	Stress [MPa]
1.	0.001340	0.177170
2.	0.001340	0.204020
3.	0.001340	0.451000
4.	0.002012	0.778510
5.	0.002682	1.127500
6.	0.003355	1.476490
7.	0.004025	1.825470
8.	0.005367	2.158360
9.	0.006040	2.459020
10.	0.006710	2.754320
11.	0.007380	3.033510
12.	0.008722	3.312700
13.	0.011407	3.575790
14.	0.010738	3.833500
15.	0.011407	4.085850
16.	0.012750	4.322090
17.	0.014093	4.552960
18.	0.014093	4.762350
19.	0.015435	4.977110
20.	0.017447	5.186510
21.	0.018120	5.395900
22.	0.018120	5.594550
23.	0.018120	5.787840
24.	0.018120	5.975760
25.	0.019462	6.152940
26.	0.020132	6.319380
27.	0.020805	6.475080
28.	0.02145	6.614680
29.	0.021475	6.748900
30.	0.021475	6.863800

Engineering

Stress [MPa] vs Strain

554.662, 388.079

Select Curve: Basic Modified

Run Curve fitting OK Cancel

- 1.
2. "CHECK"
- 3.
- 4.

Cold tensile test

Unit of length: [mm] Unit of load: [kN]

Raw data: Elongation-Load Eng.SS True.SS

1.	0.001340,	0.177170
2.	0.001340,	0.204020
3.	0.001340,	0.451000
4.	0.002012,	0.778510
5.	0.002682,	1.127500
6.	0.003355,	1.476490
7.	0.004025,	1.825470
...
20.	0.017447,	5.186510
21.	0.018120,	5.395900
22.	0.018120,	5.594550
23.	0.018120,	5.787840
24.	0.018120,	5.975760
25.	0.019462,	6.152940
26.	0.020132,	6.319380
27.	0.020805,	6.475080
28.	0.022145,	6.614680
29.	0.021475,	6.748900
30.	0.022145,	6.867800

Yield strength: 554.0

Fracture point: 0.02201

Fracture: 0.02201

0.00708189 0.0221485

Fitting model: Hollomon model (3)

Numerical option

Run Curve fitting

Select Curve: Basic Modified

True

Stress [MPa]

Strain

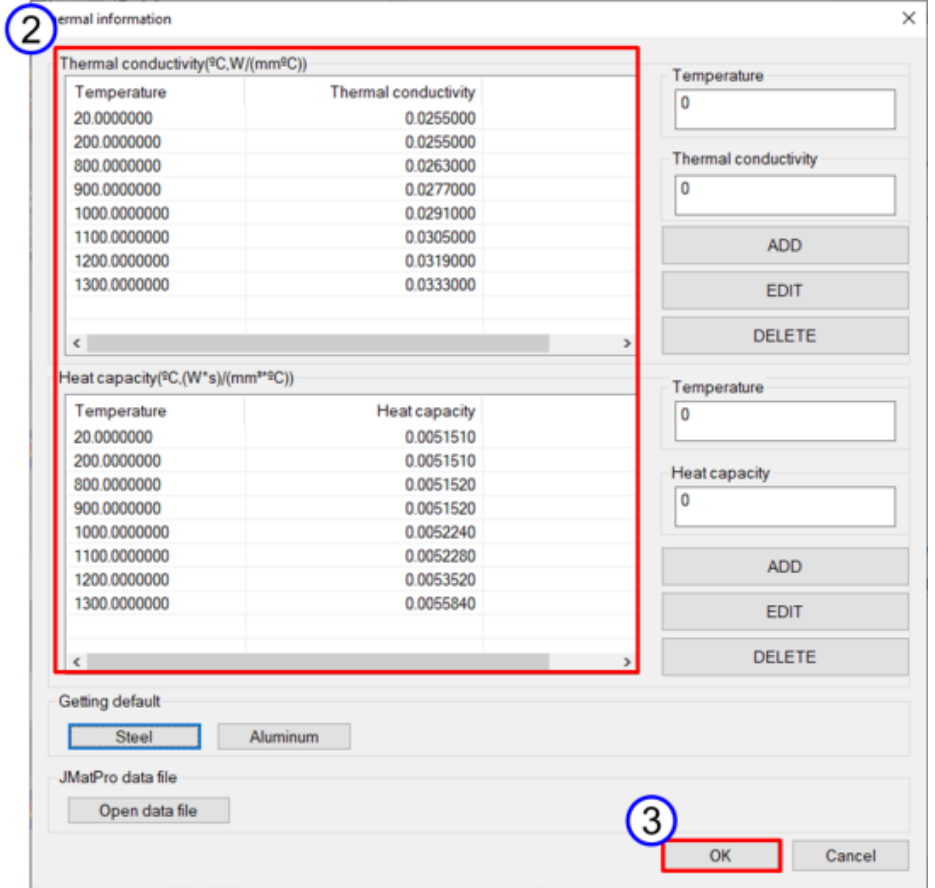
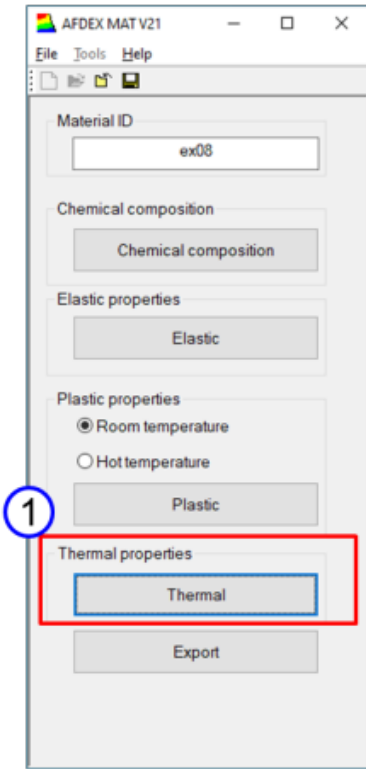
MAT

K = 6.80744473E+02
n = 3.16791367E-02
Error = 4.17993490E+01 MPa

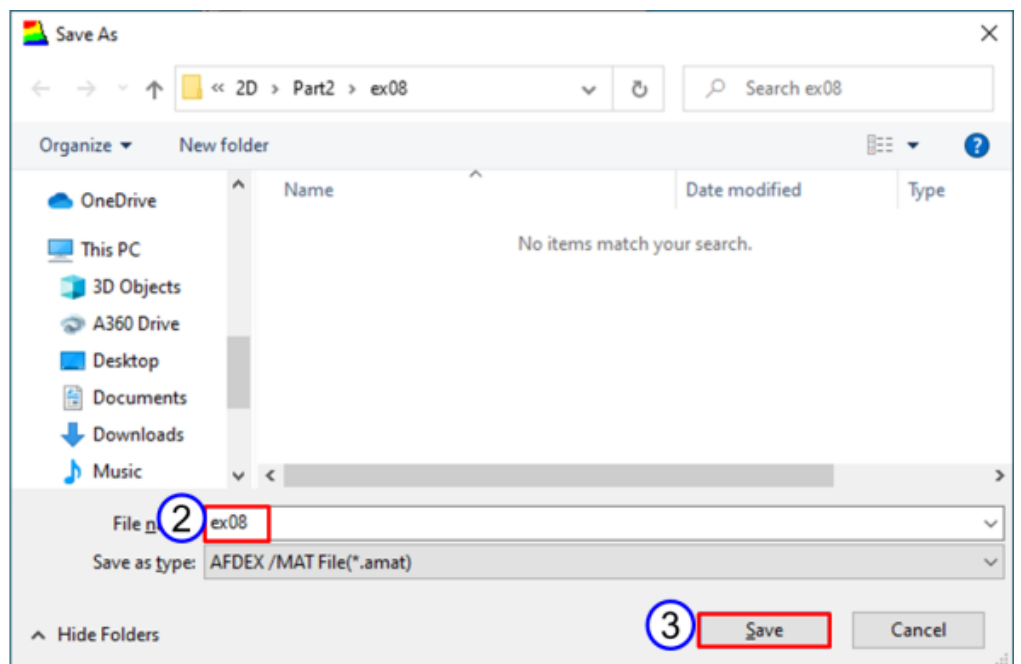
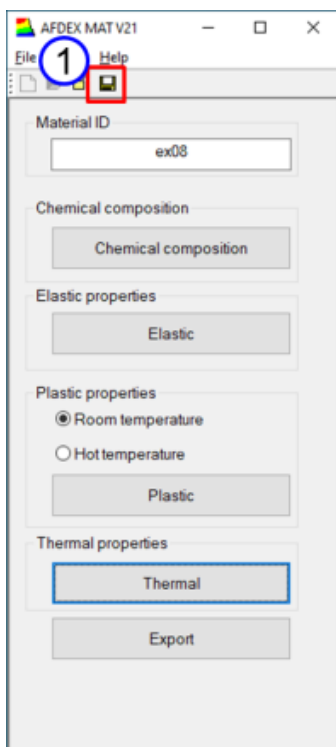
OK

OK Cancel

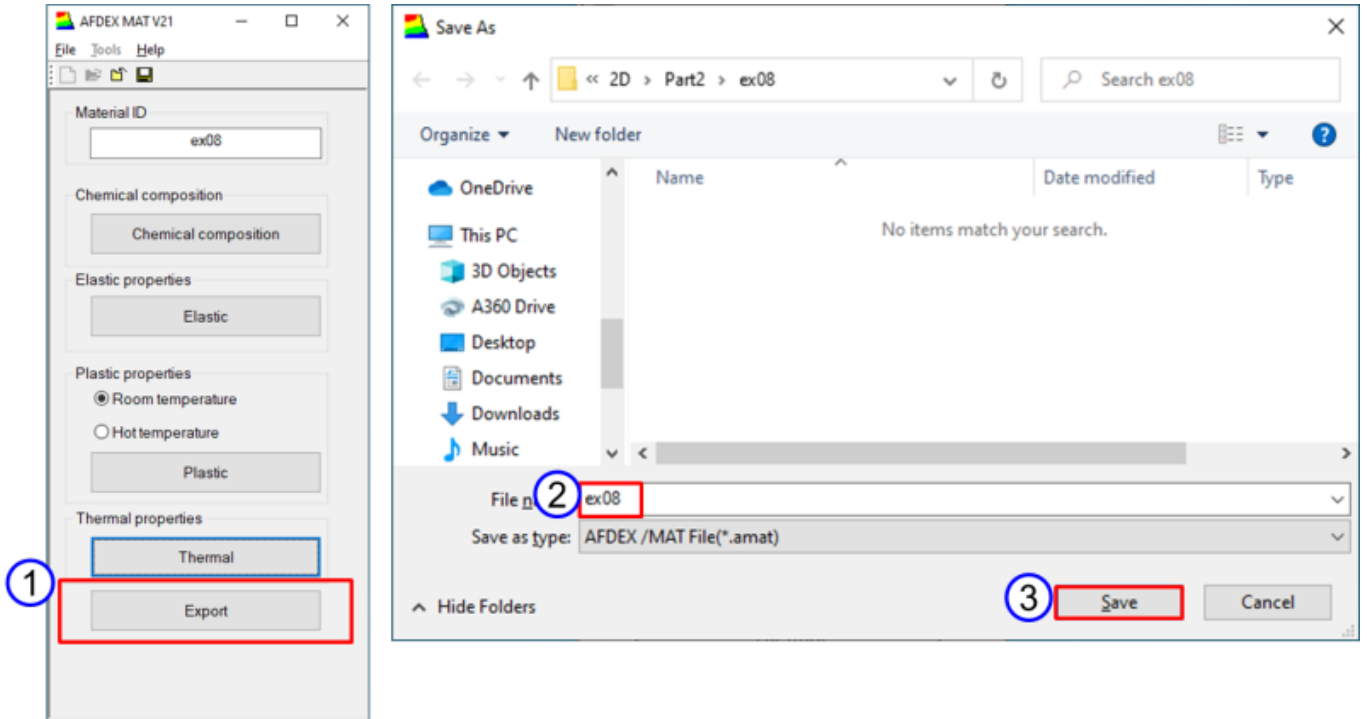
1. Fitting model "Hollomon model (3)"
2. "Run"
3. "OK"
4. "Curve fitting"
5. "OK"



1. "Thermal"
- 2.
3. "OK"



- 1. "Save" .
- 2. "ex08" .
- 3. "Save" .



- 1. "Export" .
- 2. "ex08" .
- 3. "Save" .

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