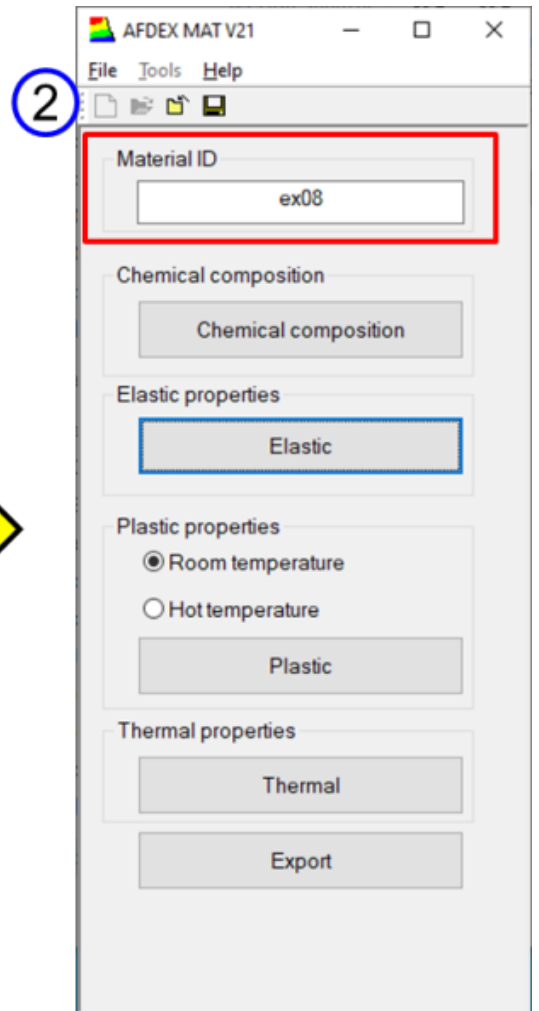
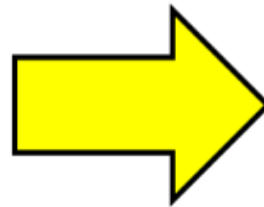
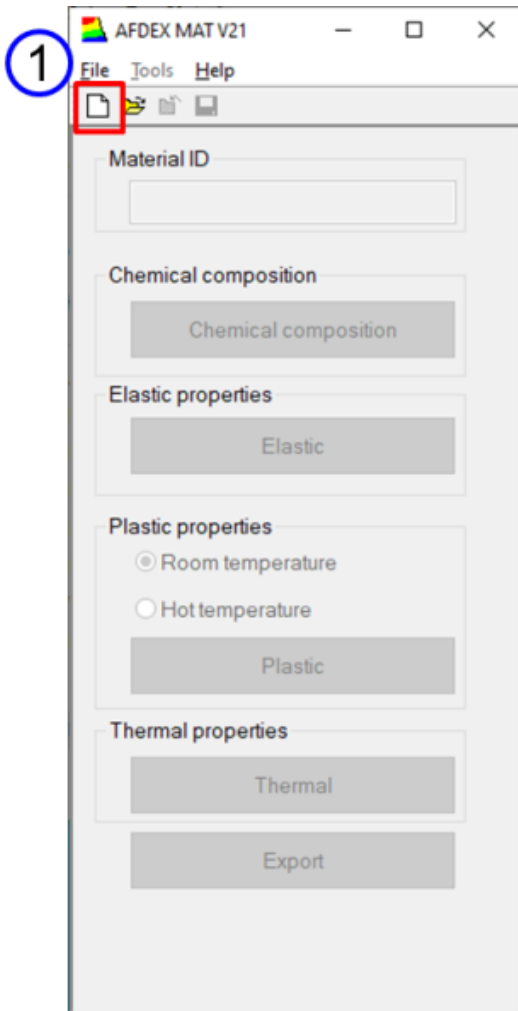


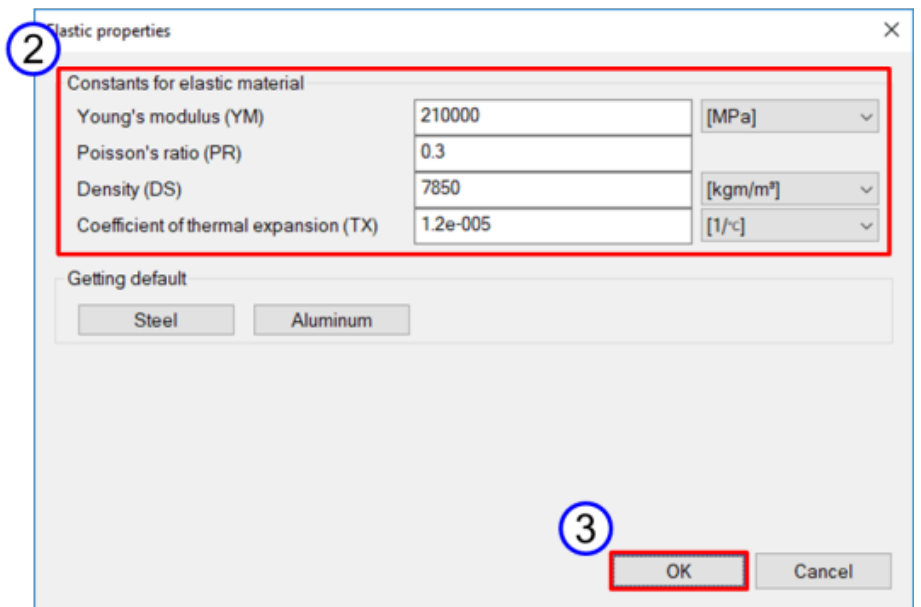
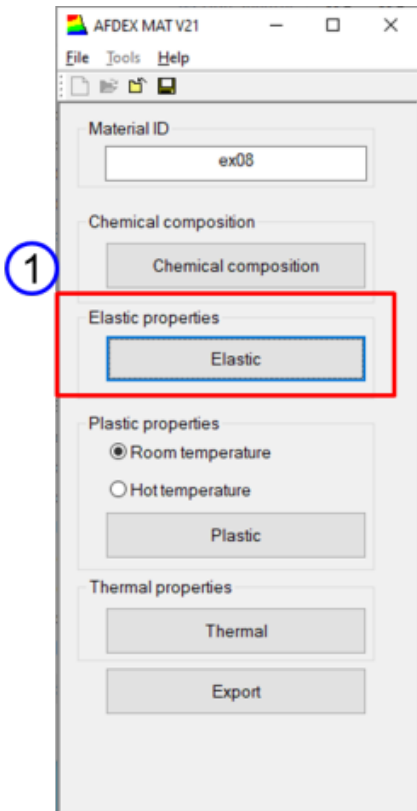
Ex09-3.

Swift

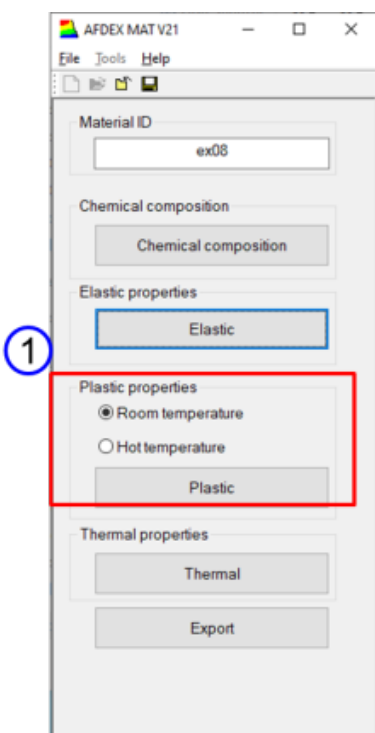
AFDEX_MAT



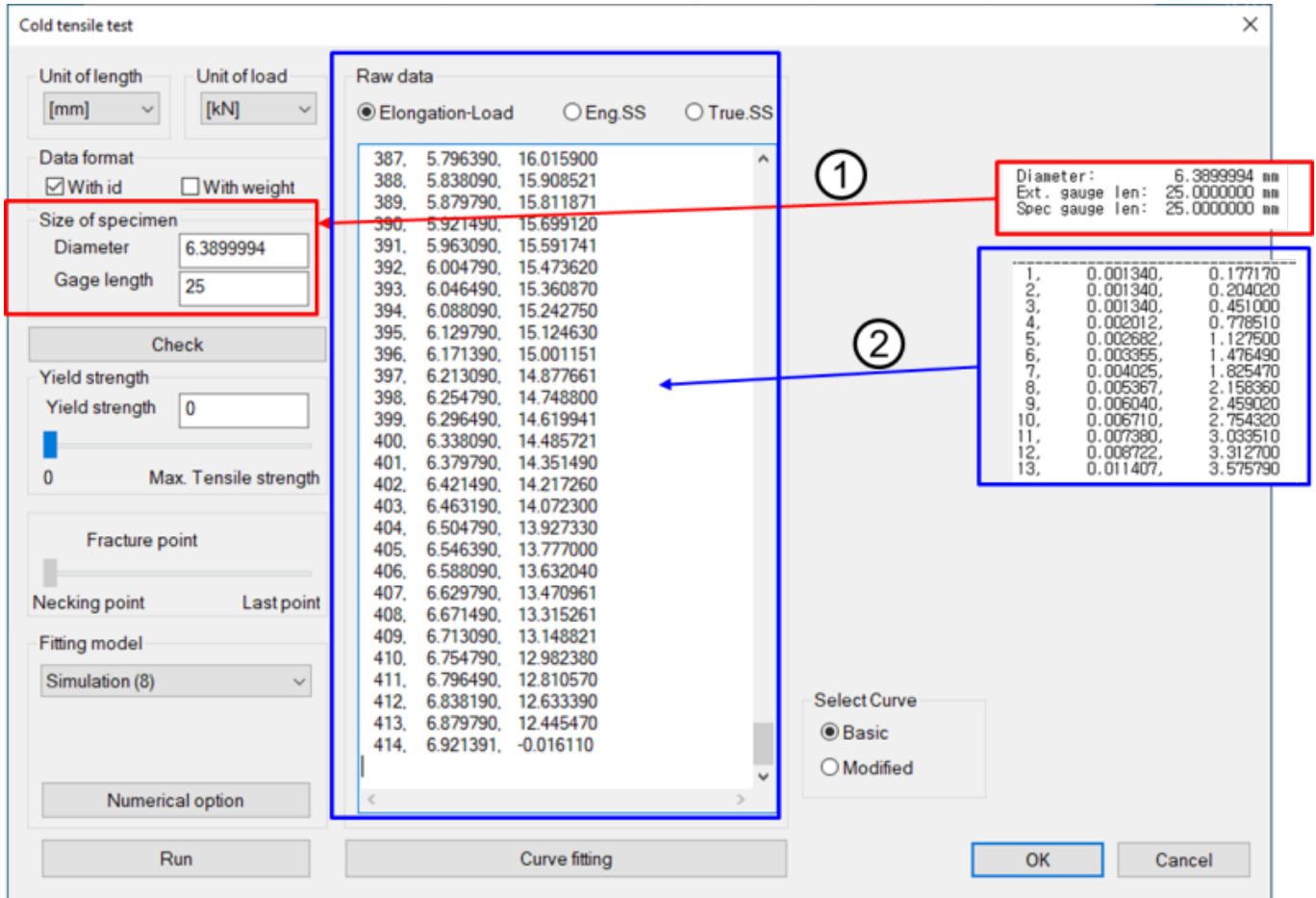
1. 'New'
2. Material ID ex08()



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



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



- 1.
- 2. “Raw data”

Cold tensile test

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. Check

3. Yield strength: 554.661549219

4. Fracture point: Fracture: 0.0220153

Fitting model: Simulation (8)

Run

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
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.	0.022145.	6.614680
29.	0.021475.	6.748900
30.	0.022145.	6.863800

Engineering

Select Curve: Basic Modified

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

Gage: MAT

Yield stress: 0

Fracture force: 0.00708189

Fitting model: **Swift model (1)**

Numerical option: []

Buttons: Run, Curve fitting, OK, Cancel

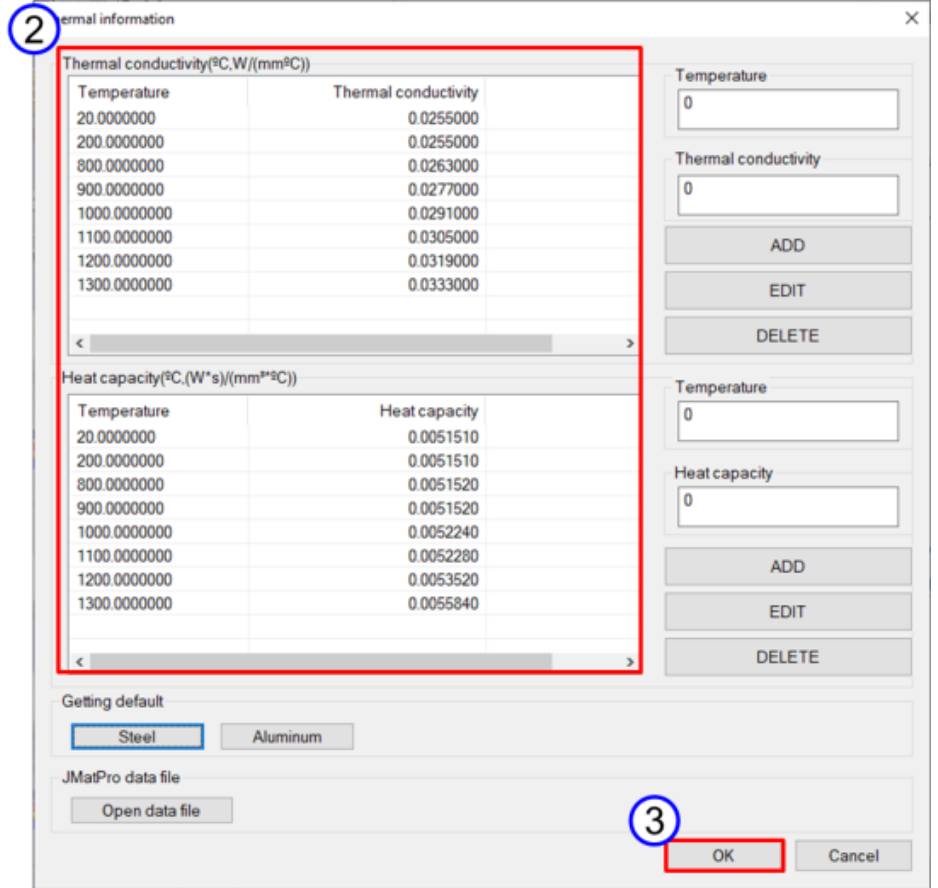
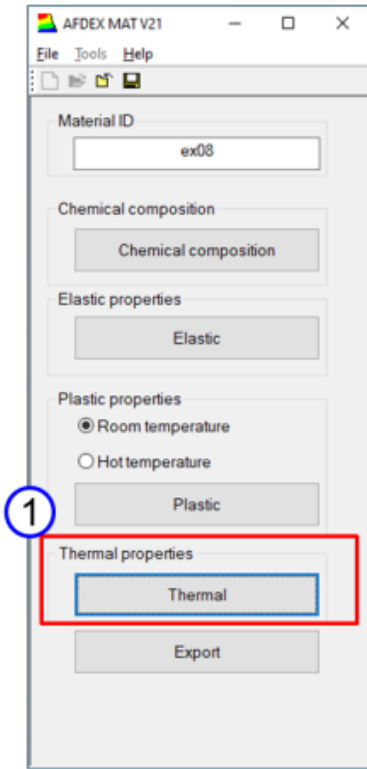
True

Stress [MPa] vs Strain graph showing a curve from 0 to 1 strain, with stress increasing from approximately 500 to 800 MPa.

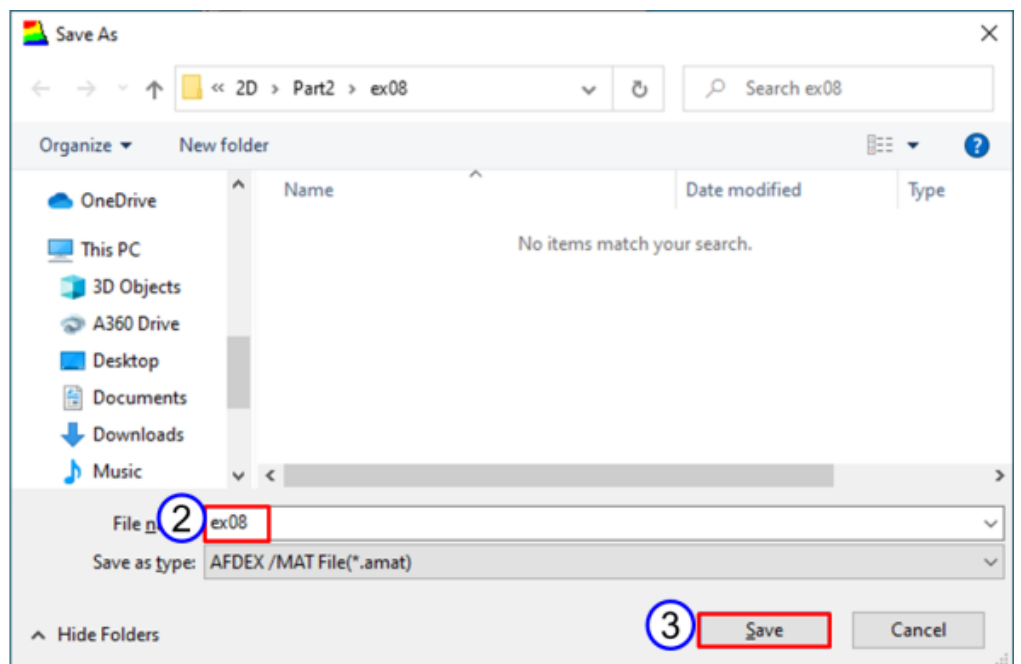
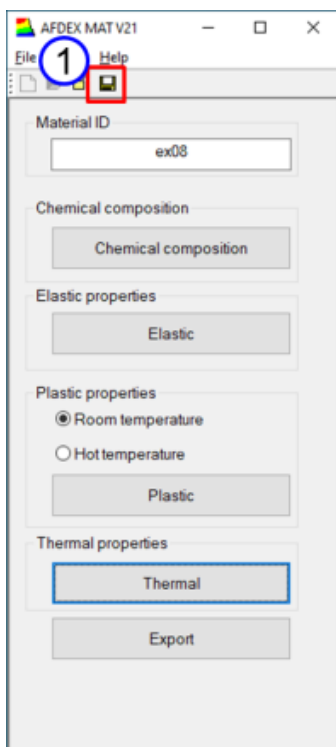
Dialog box parameters:

- Y0 = 5.66635896E+02
- s0 = 5.06251739E-02
- n = 1.44295969E-01
- Error = 1.62474119E+00 MPa
- Slope at necking point = 7.19941941E+02

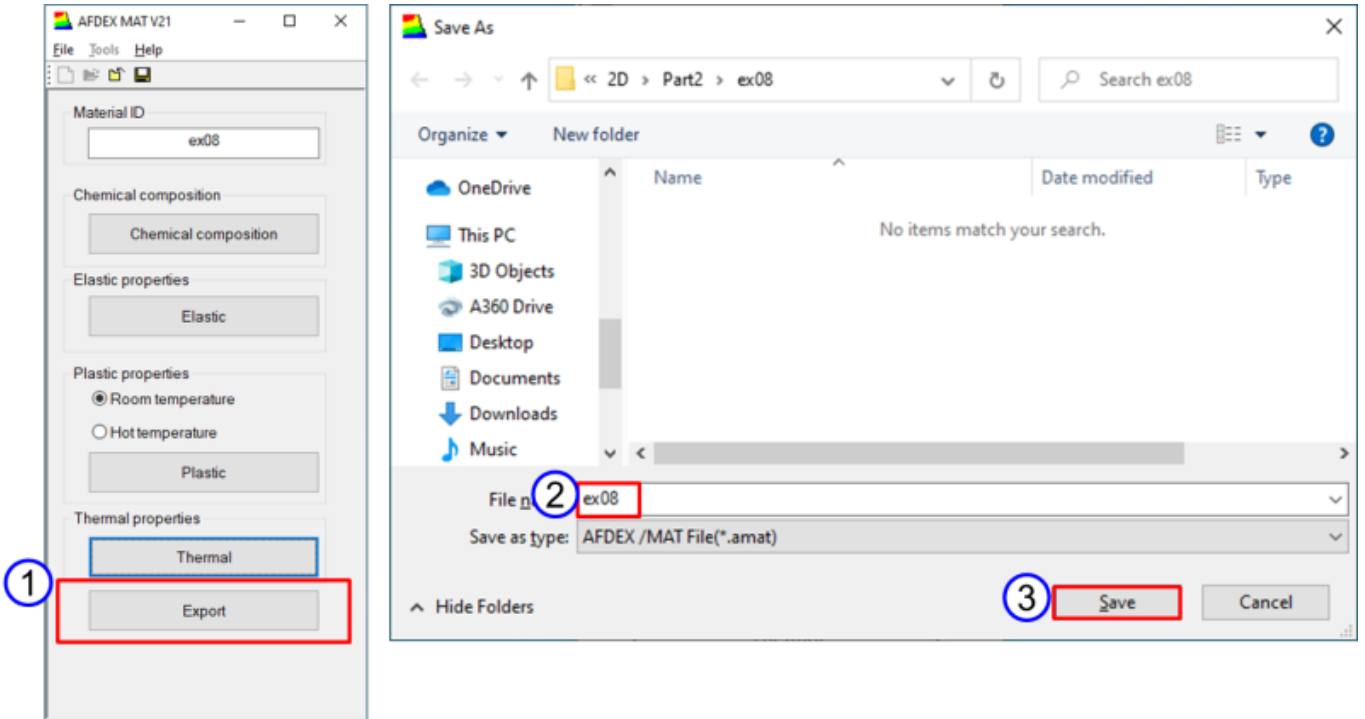
1. Fitting model "Swift model (1)"
2. "Run"
3. "OK"
4. "Curve fitting"
5. "OK"



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



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



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

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Last update: **2026/05/27 06:32**

