

Ex09-1. Kn 3

AFDEX_MAT 3

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..... 4

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..... 5

..... 5

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..... 8

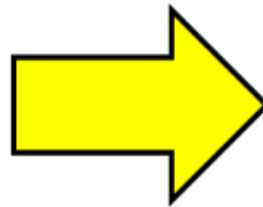
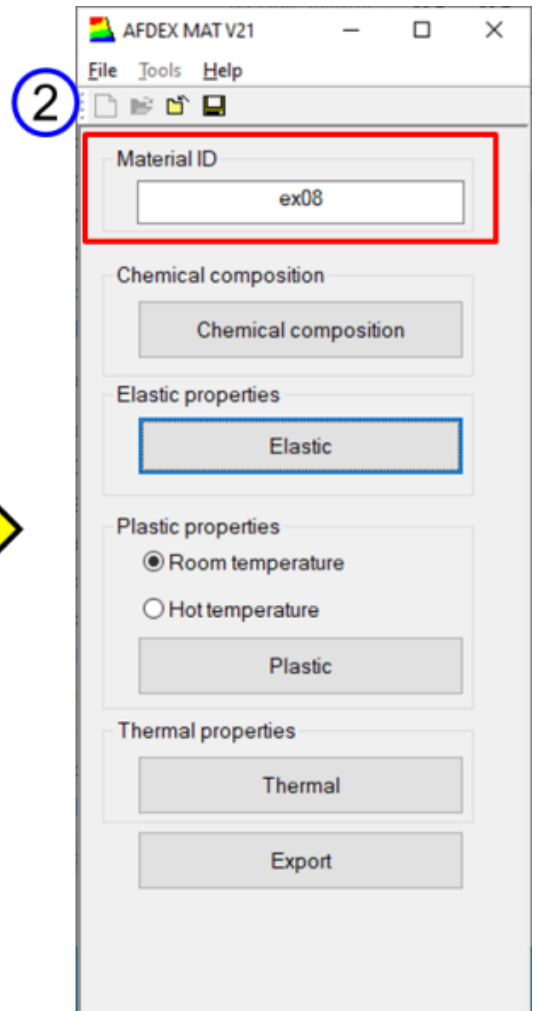
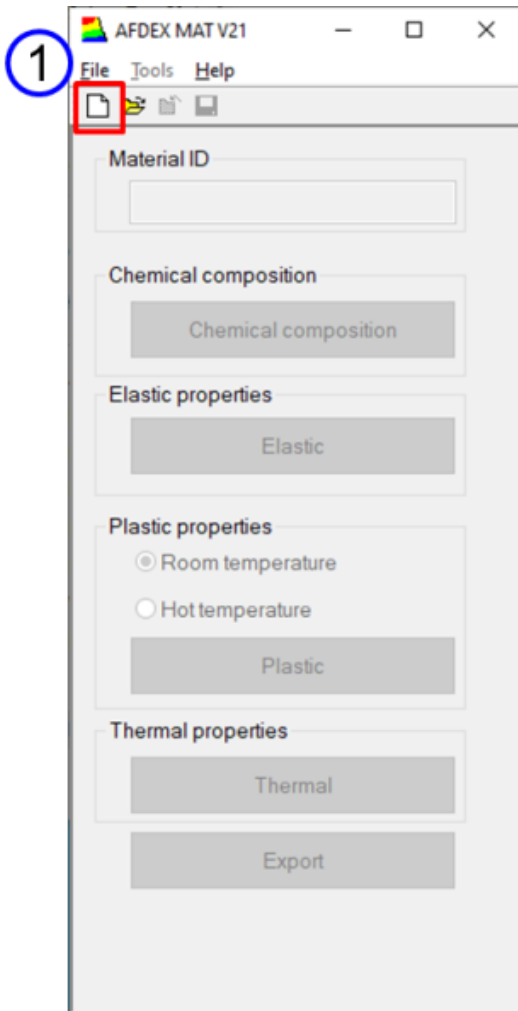
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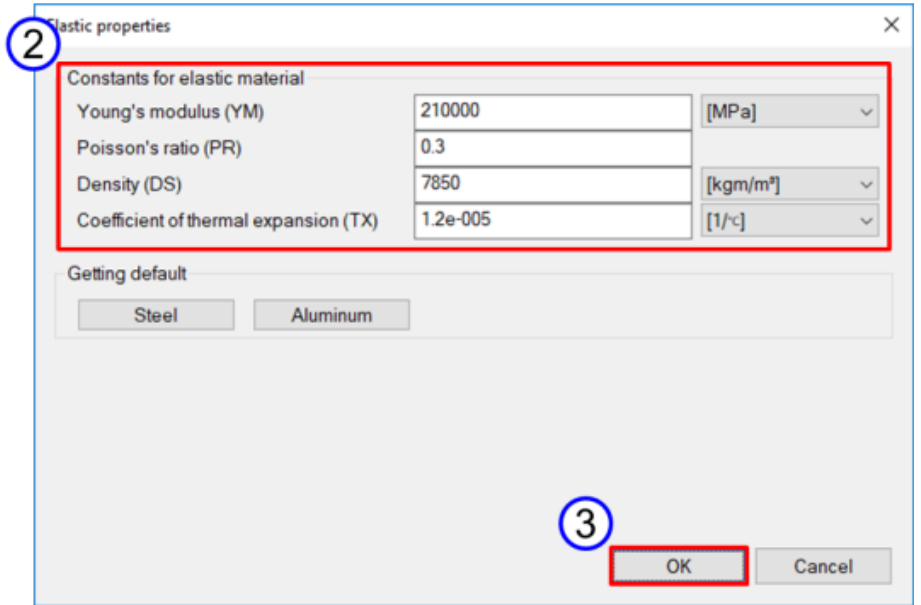
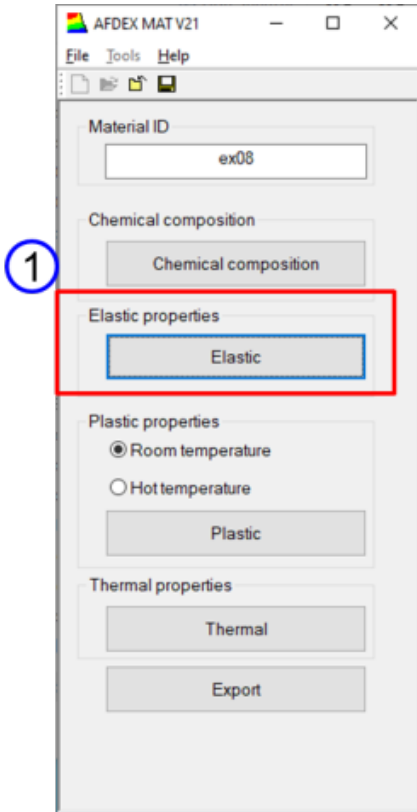
..... 10

Ex09-1. Kn

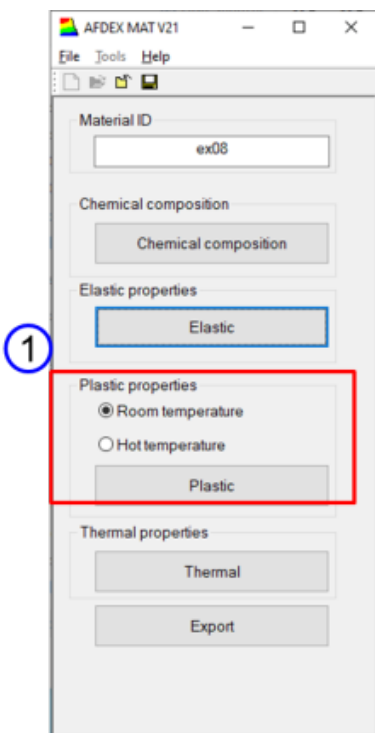
AFDEX_MAT



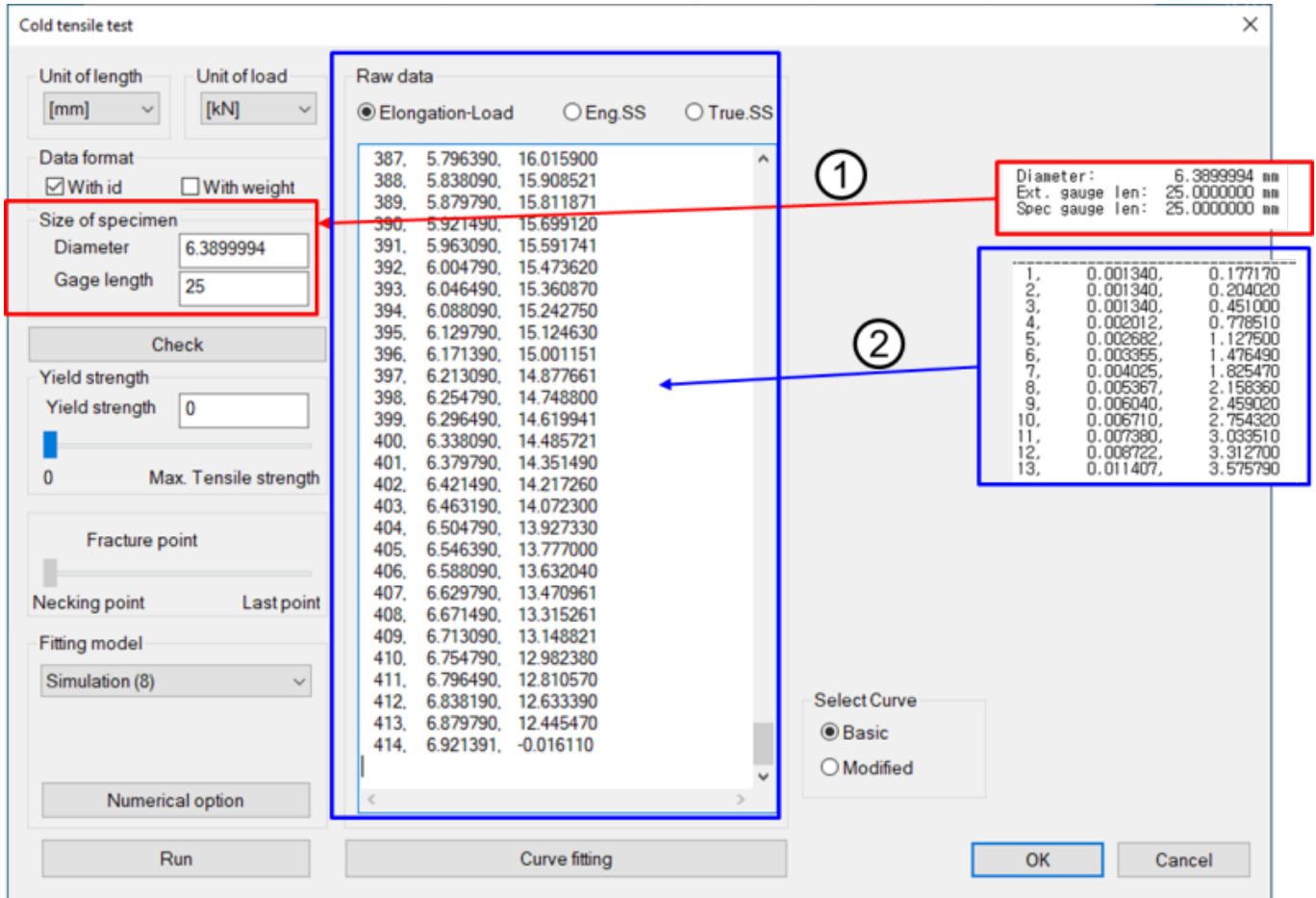
1. 'New'
2. Material ID ex08()



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.	0.022145	6.614680
29.	0.021475	6.748900
30.	0.022145	6.863800

Engineering

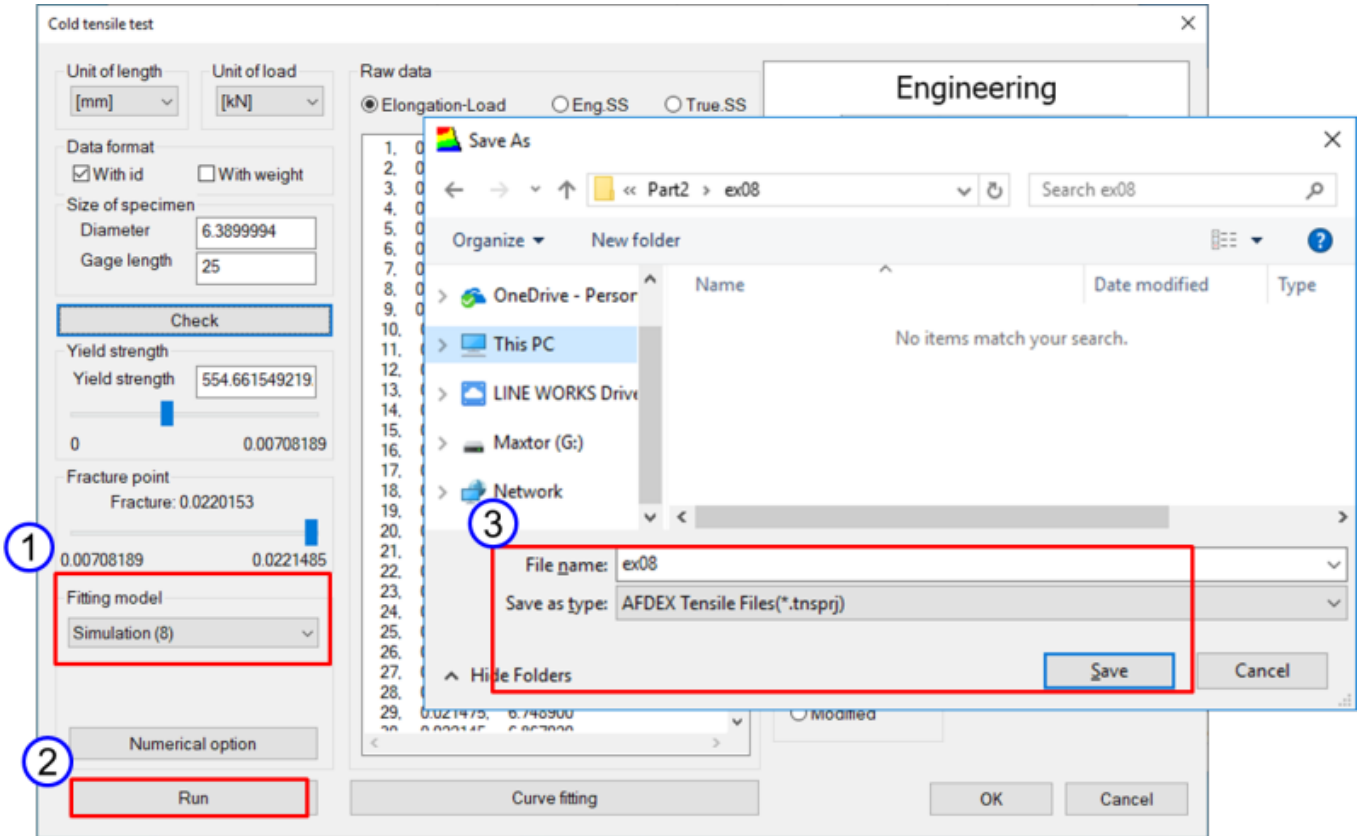
Stress [MPa] vs Strain

554.662, 388.079

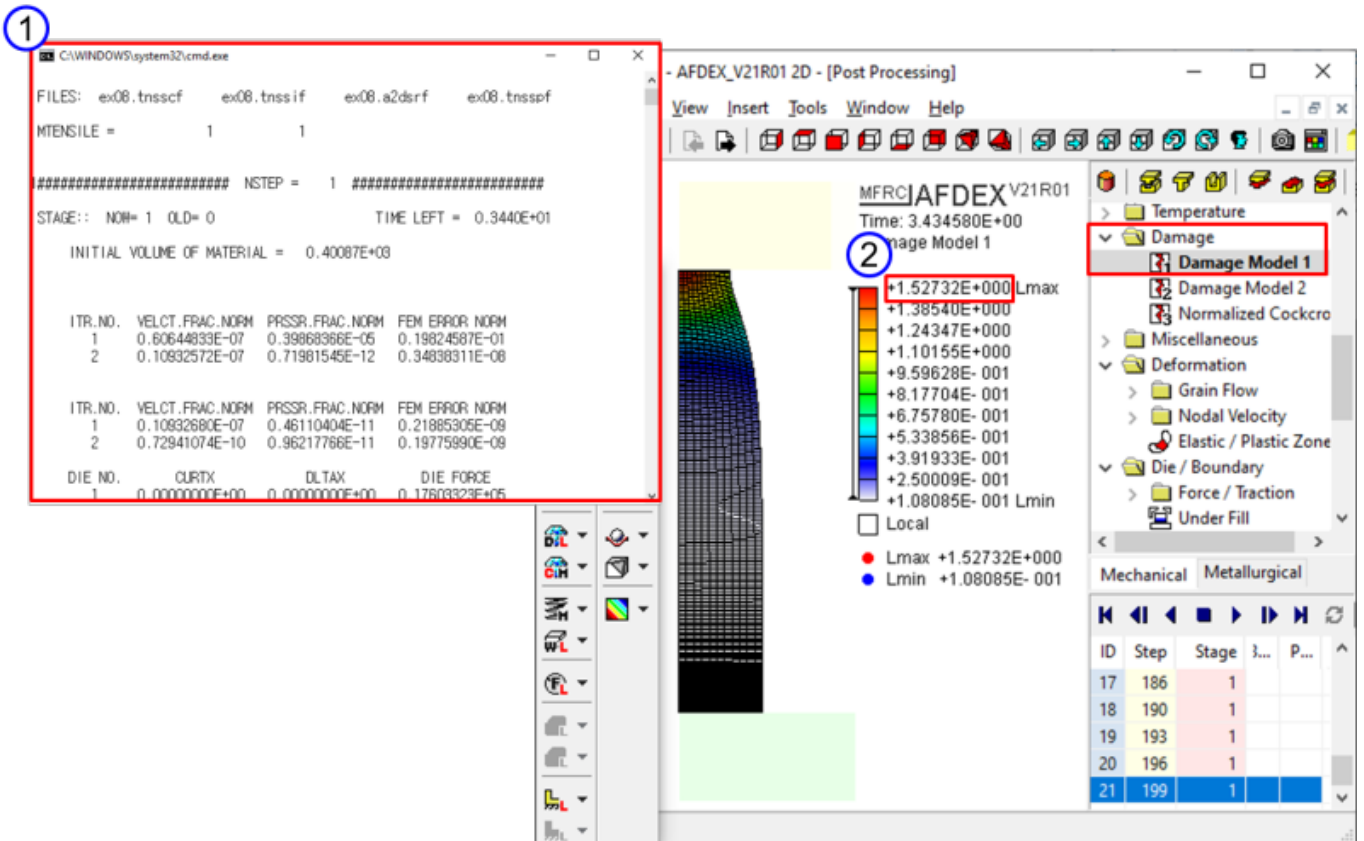
Select Curve: Basic Modified

Run, Curve fitting, OK, Cancel

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



1. Fitting model "Simulation (8)"
2. "Run"
3. "Save"



1. Simulation
2. Damage (1.50)

Cold tensile test

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

Data format: With id With weight

Size of specimen: Diameter: 6.3899994 Gage length: 25

Check

Yield strength: Yield strength: 554.661549219

Fracture point: Fracture: 0.0220153

Fitting model: Simulation (8)

Numerical option

Run

Raw data

Elongation-Load Eng.SS True.SS

strain	stress
0	0
0.08736	650.358
0.24468	729.932
0.32805	762.172
0.39896	787.456
0.45812	806.345
0.52301	826.213
0.58188	843.432
0.63239	857.556
0.68623	872.099
0.74365	886.937
0.78923	898.694
0.83714	910.2
0.88754	921.815
0.94065	933.134
0.9967	943.989
1.03579	951.412
1.07643	958.034
1.1186	963.432
3.1186	1169.58

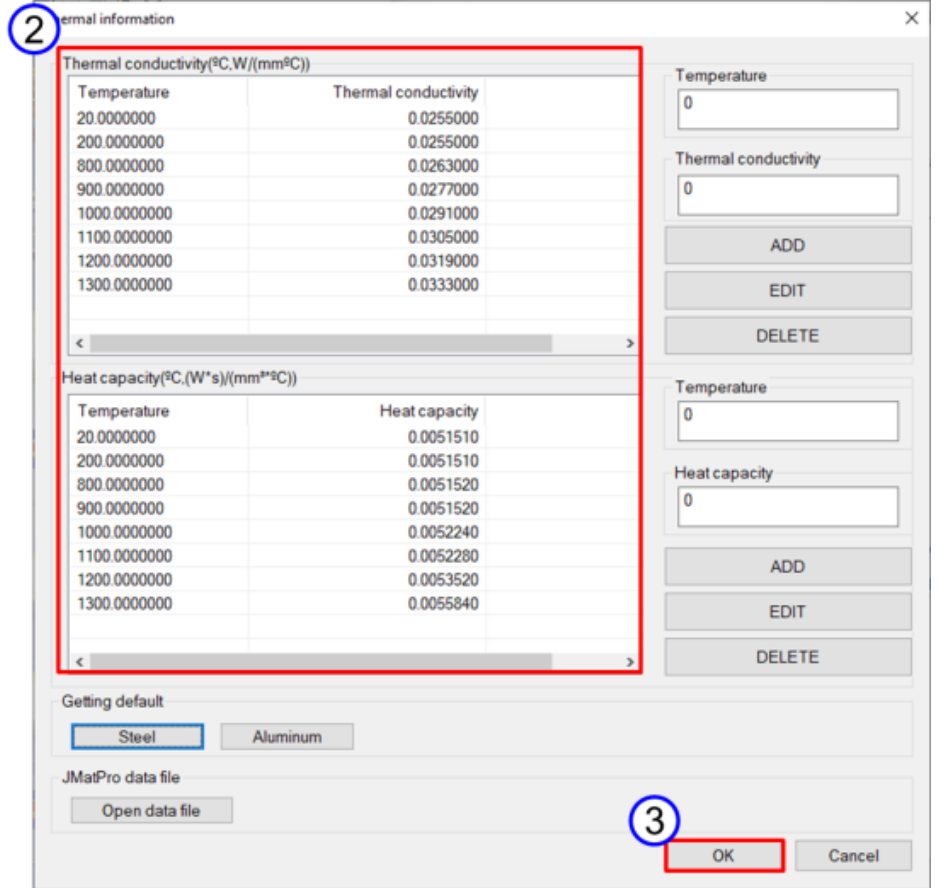
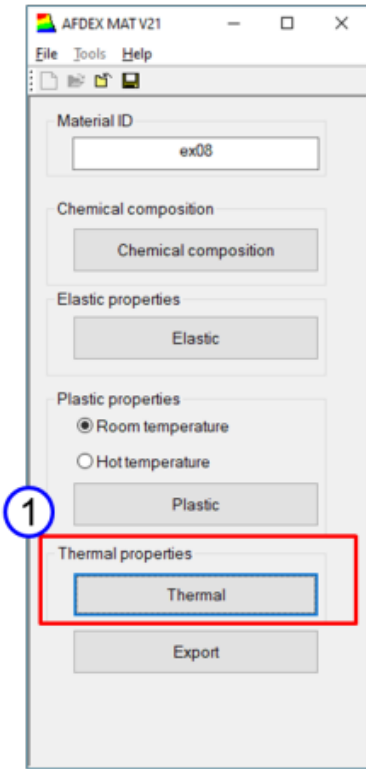
True

Select Curve: Basic Modified

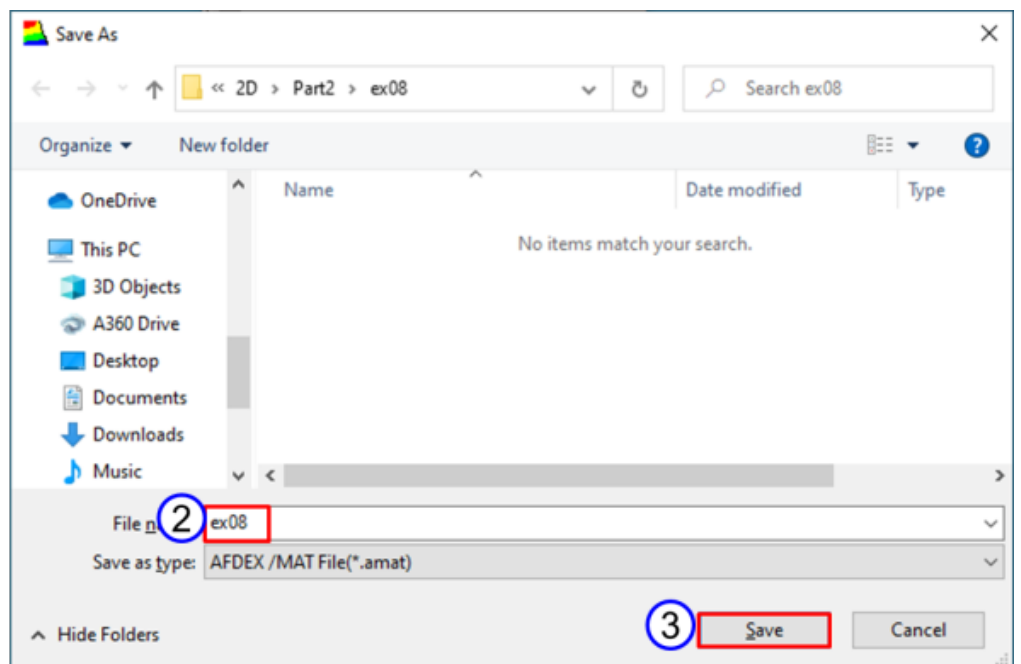
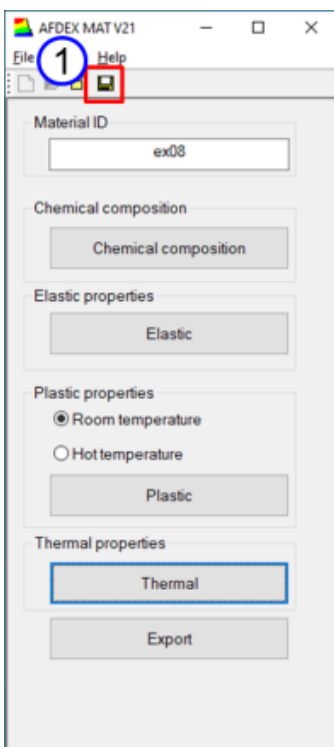
Curve fitting

OK Cancel

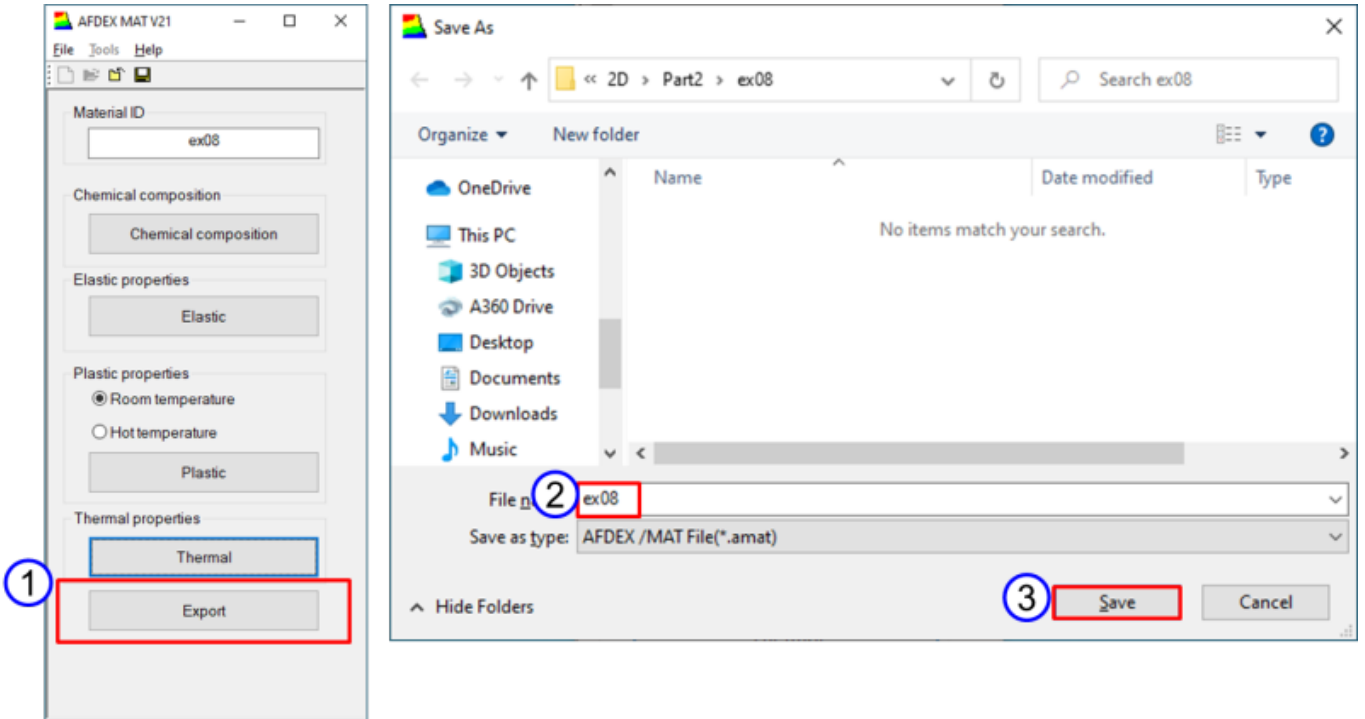
1. "Curve fitting"
2. "OK"



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



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



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

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