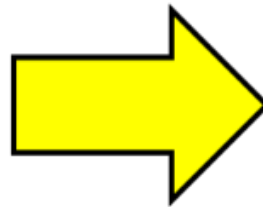
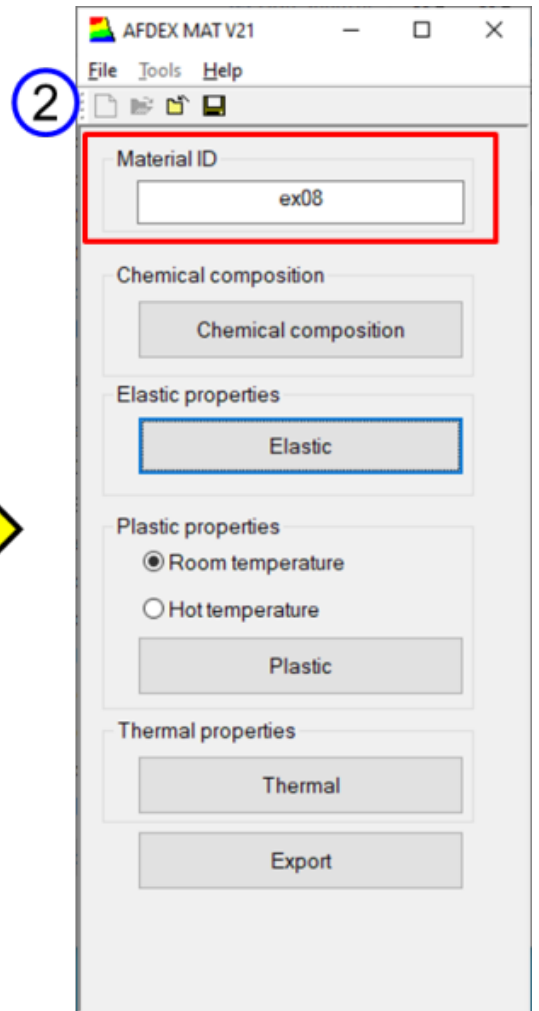
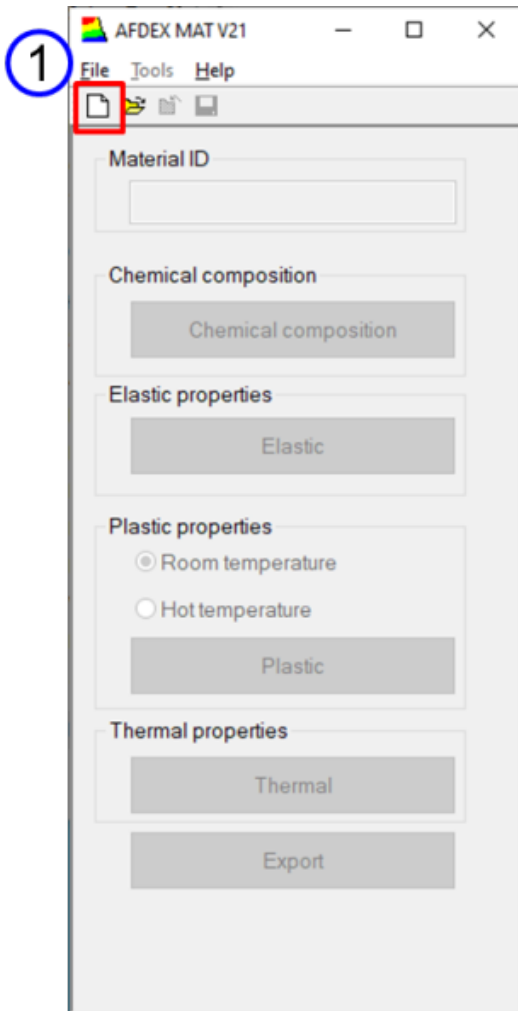


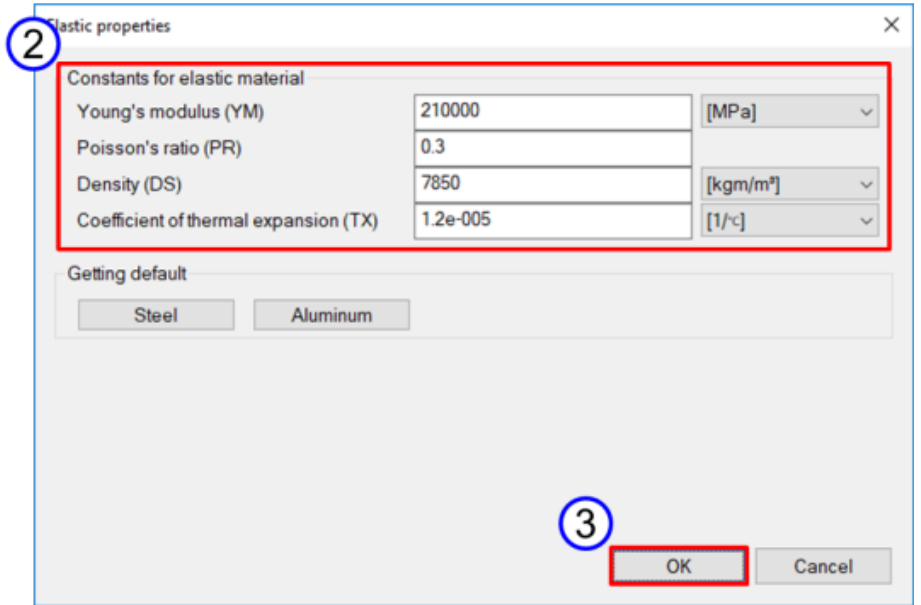
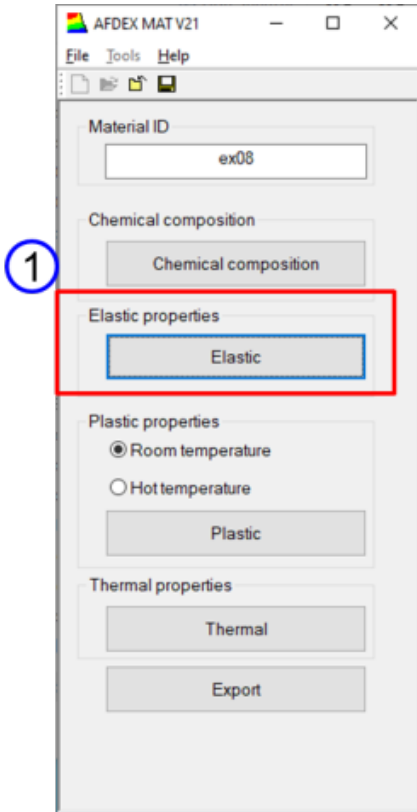
Ex09-2. Kn 3
AFDEX_MAT 3
..... 3
..... 4
..... 4
..... 5
..... 5
..... 6
..... 7
..... 8
..... 9

Ex09-2. Kn

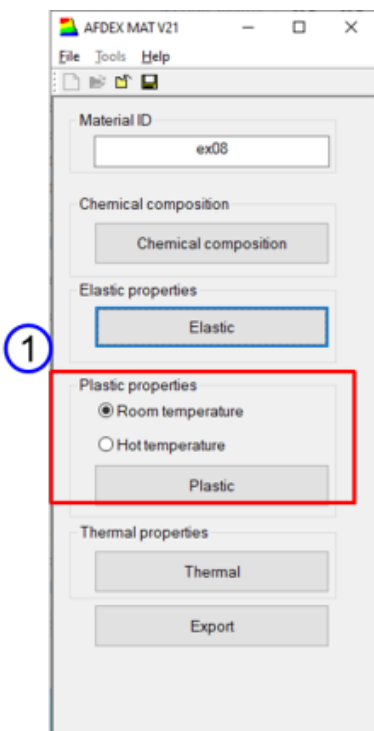
AFDEX_MAT



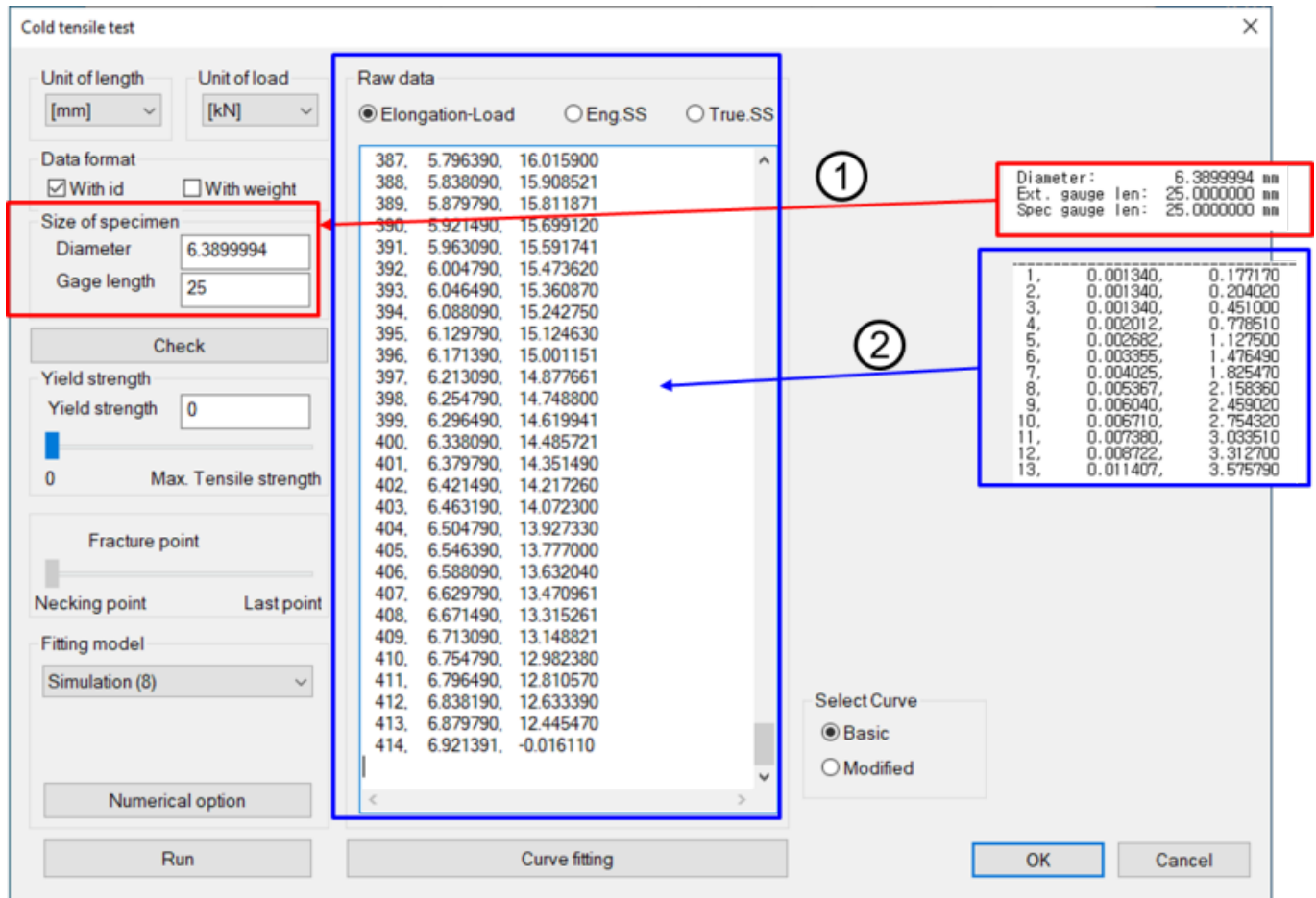
1. 'New'
2. Material ID ex08()



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



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



- 1.
- 2. “Raw data”

Cold tensile test

1. Unit of length: [mm] Unit of load: [kN]
Data format: With id With weight

2. Size of specimen: Diameter: 6.3899994 Gage length: 25

3. Check: 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.	0.021475.	6.863800

Engineering

Stress [MPa]

Strain

Select Curve: Basic Modified

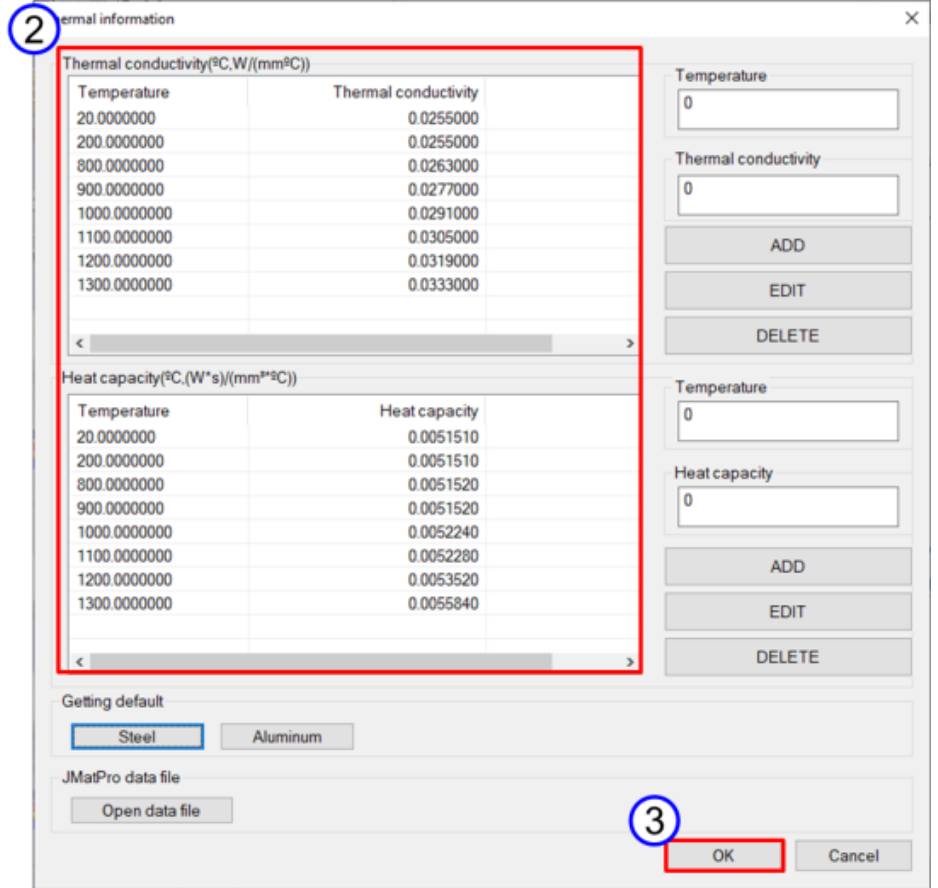
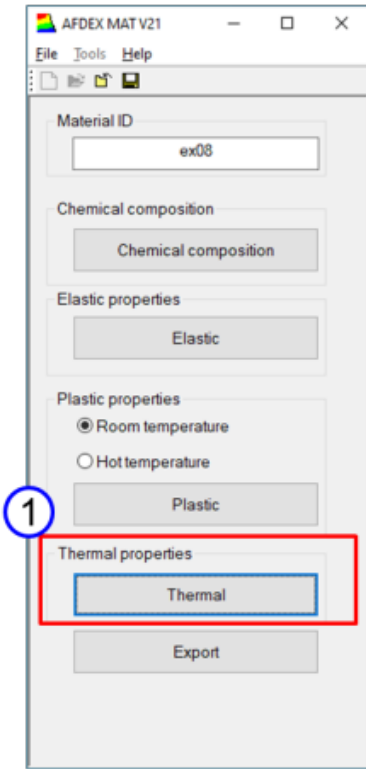
OK Cancel

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

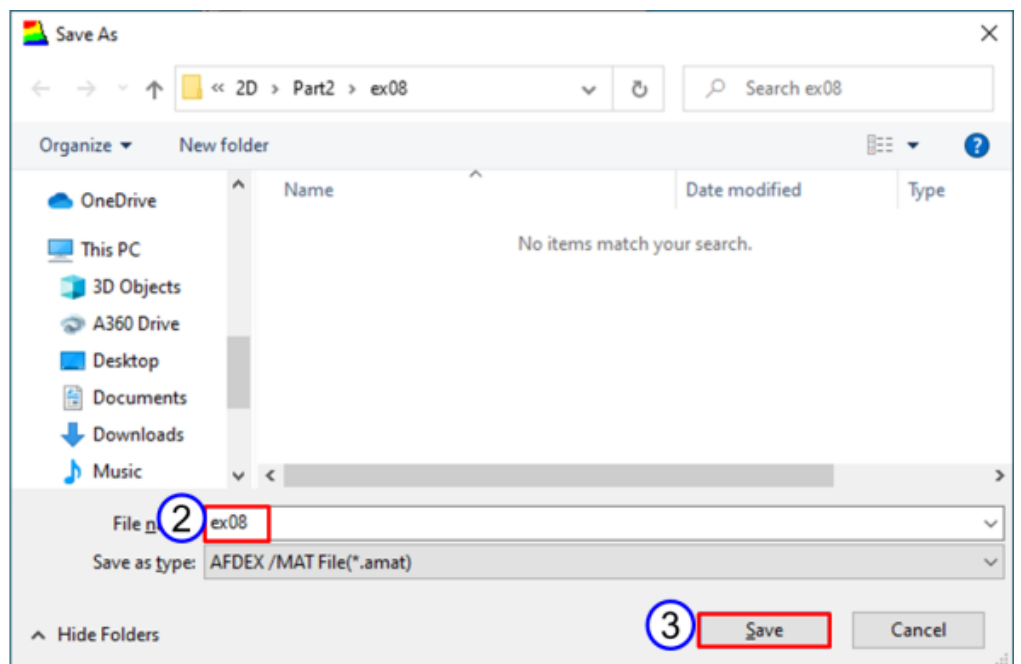
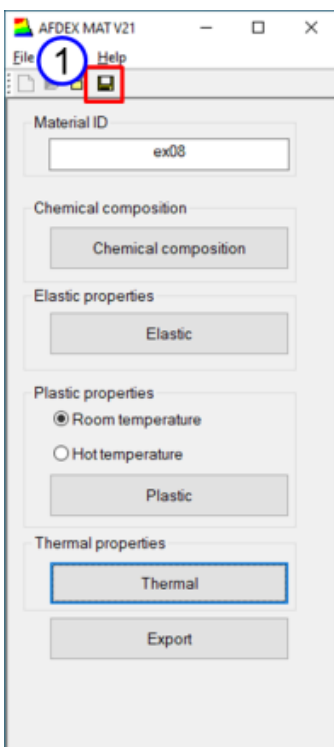
The screenshot shows the 'Cold tensile test' software interface. It includes input fields for specimen dimensions, a 'Raw data' table, a 'Fitting model' dropdown, and 'Run' and 'Curve fitting' buttons. A 'MAT' dialog box is open, displaying material parameters: $K = 6.80744473E+02$, $n = 3.16791367E-02$, and $Error = 4.17993490E+01$ MPa. A 'True' stress-strain graph is shown on the right, plotting Stress [MPa] against Strain. The graph shows a curve that rises sharply and then levels off. The 'Fitting model' dropdown is set to 'Hollomon model (3)'. The 'Run' button is circled with a blue '1', the 'Curve fitting' button with a blue '2', the 'OK' button in the MAT dialog with a blue '3', the 'Curve fitting' button with a blue '4', and the 'OK' button at the bottom right with a blue '5'. The 'Run' and 'Curve fitting' buttons are also highlighted with red boxes.

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
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

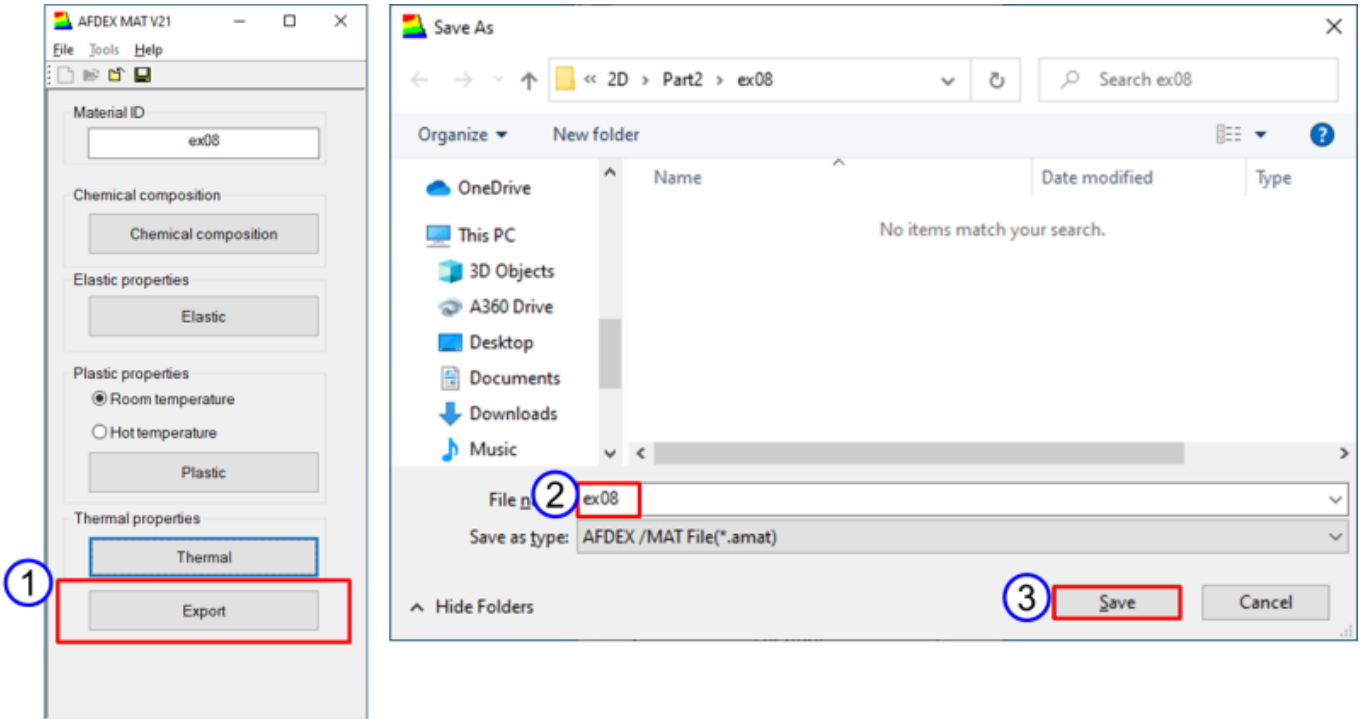
1. Fitting model "Hollomon model (3)"
2. "Run"
3. "OK"
4. "Curve fitting"
5. "OK"



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



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



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

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