

Ex01. Swift

(AFDEX 1)

[AFDEX_MAT]

[(Elastic)]

[(Plastic)]

[(Plastic)]

[(Plastic)]

[(Plastic)]

[(Plastic)]

[(Plastic)]

[(Thermal)]

[AFDEX_MAT]

[]

3

3

4

4

5

6

6

7

7

8

9

9

Ex01. Swift

(AFDEX 1

Swift 모델

$$\bar{\sigma} = Y_0 \left(1 + \frac{\bar{\epsilon}}{b}\right)^a$$

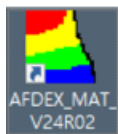
Y_0 : Minimum yield strength (최소항복강도)

a : Strain hardening exp. (변형률 경화지수)

b : Strain reduction ratio (변형률 감소 지수)

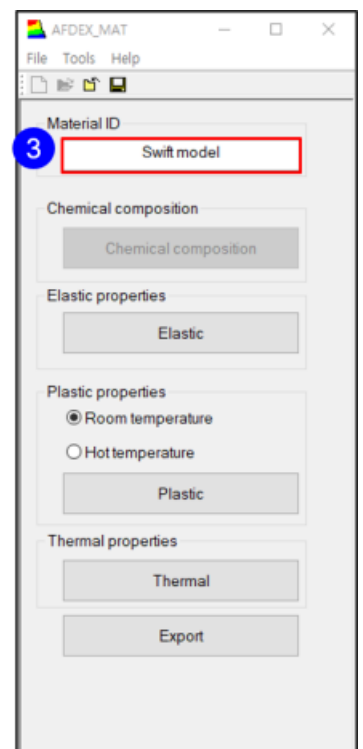
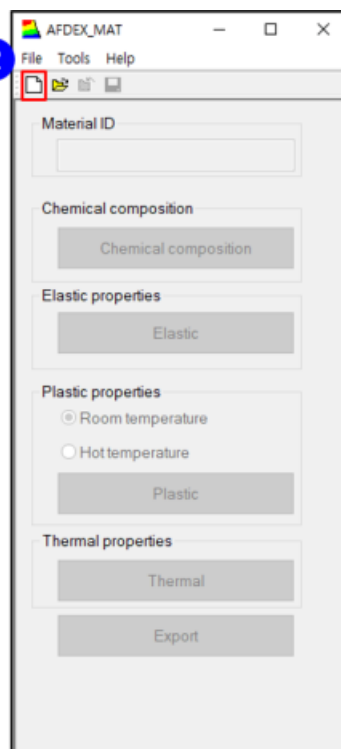
[AFDEX_MAT

]



1

2



1. ADEX_MAT

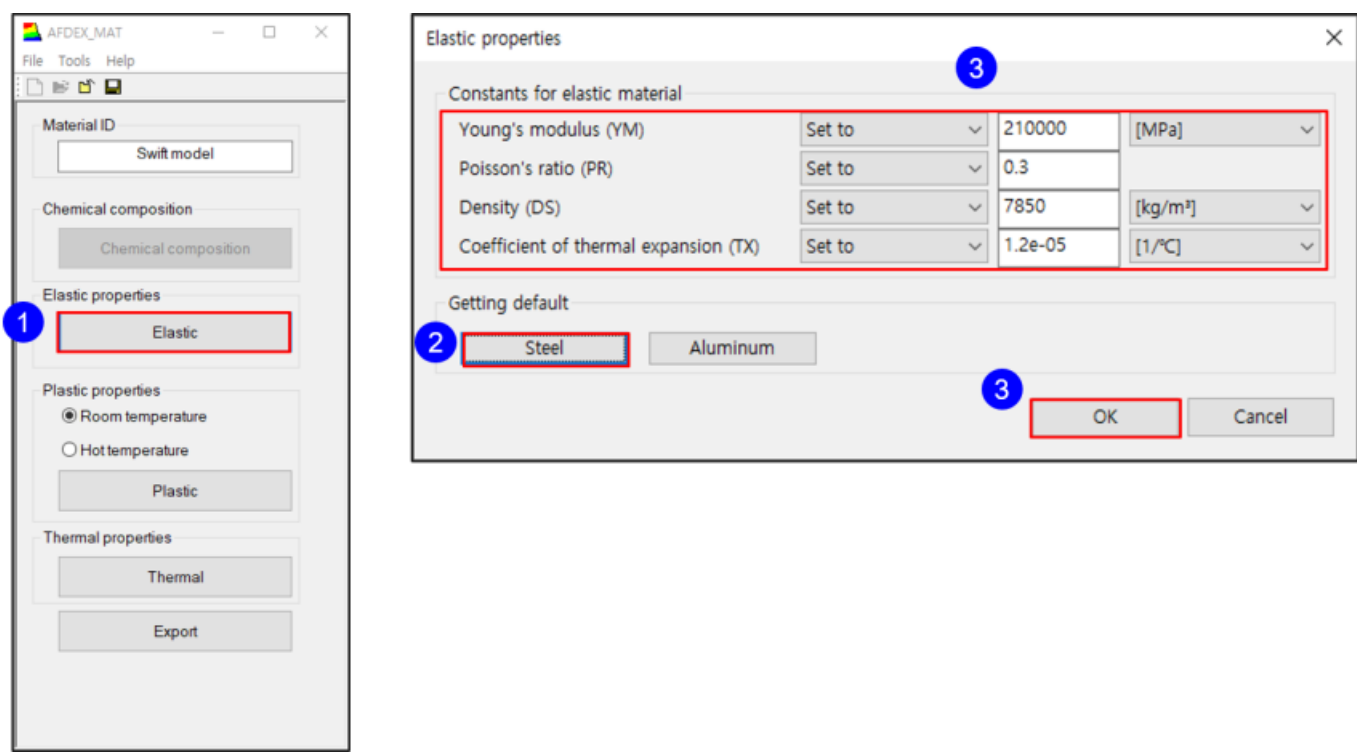
2. "New"

3. "Material ID"

[

(Elastic)

]



1. “Elastic” .
2. “Elastic properties” , “Getting default” “Steel” . (, Aluminum)
3. , “Young's modulus”, “Poisson's ratio”, “Density”, “Coefficient of thermal expansion” .

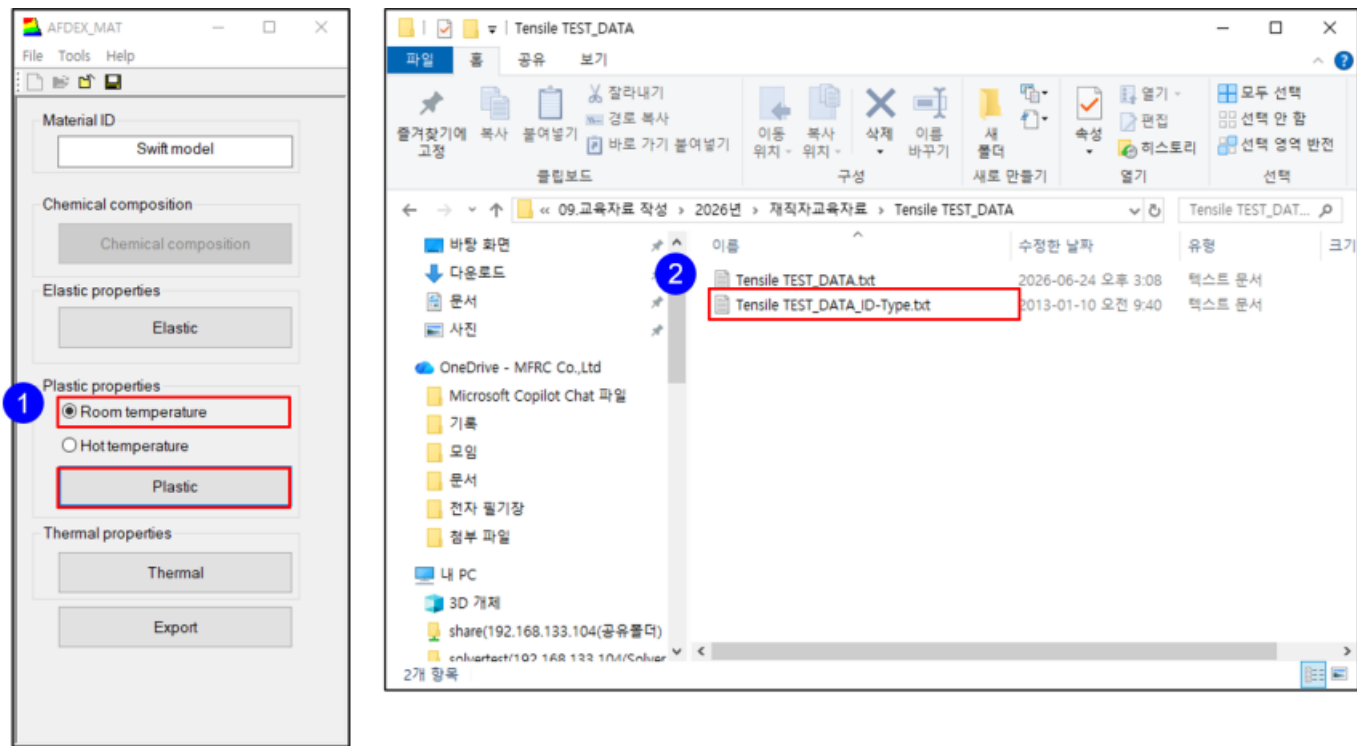
가 , 가 .

[

(Plastic)

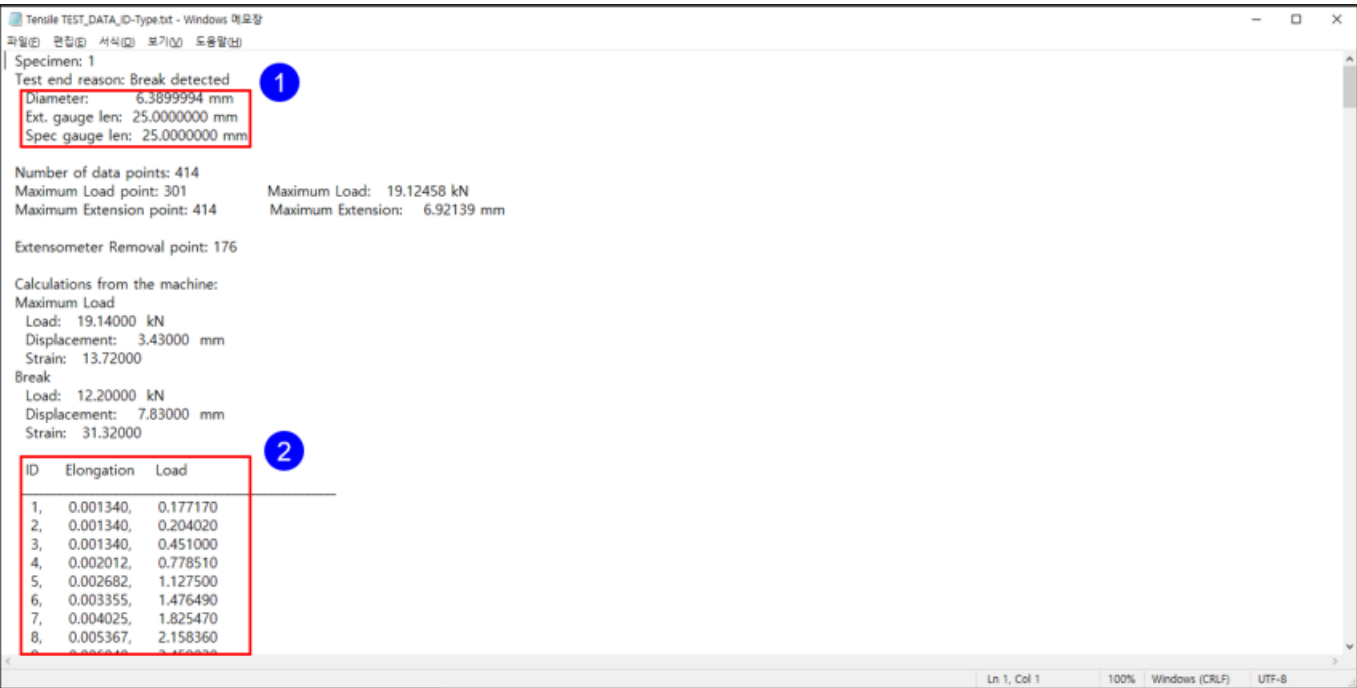
—

]



1. “Room temperature” , “Plastic” .
2. .

[(Plastic) _]

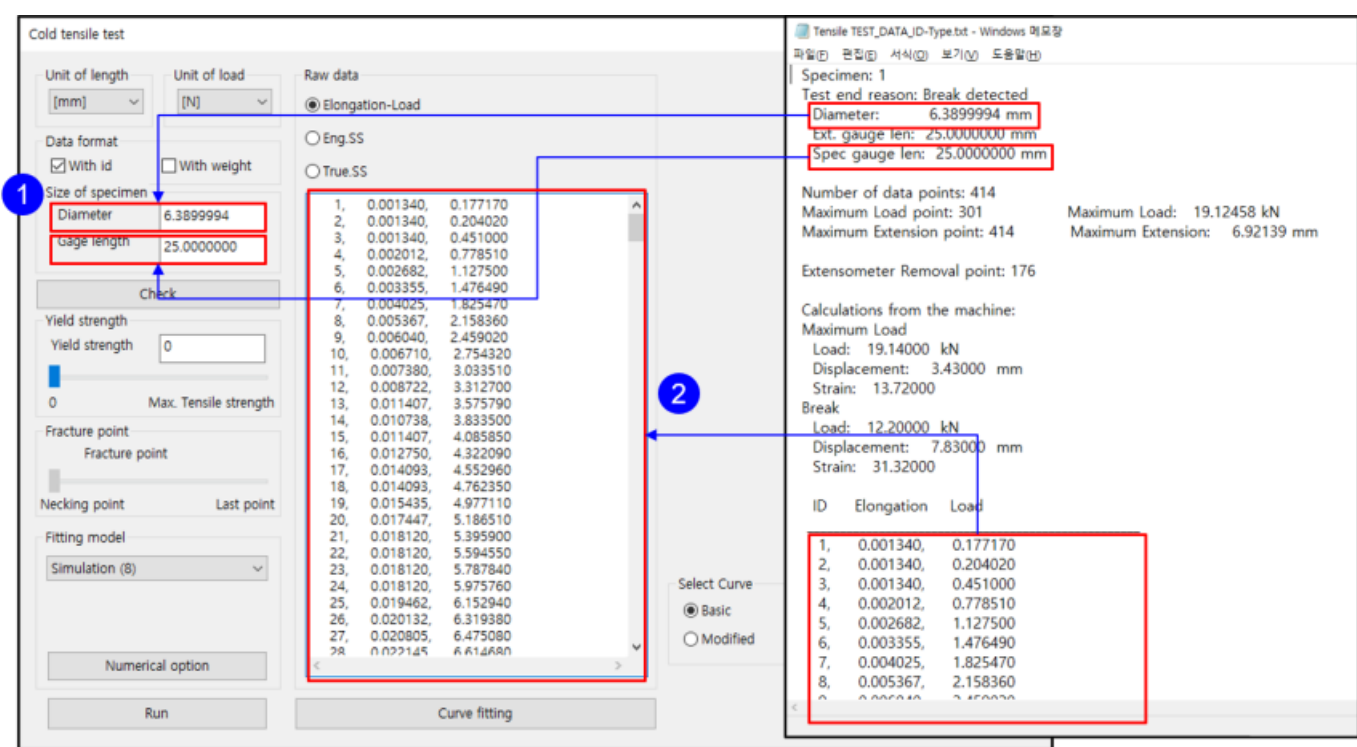


1. .
2. (Elongation), (Load) .(ID))

[

(Plastic)

]

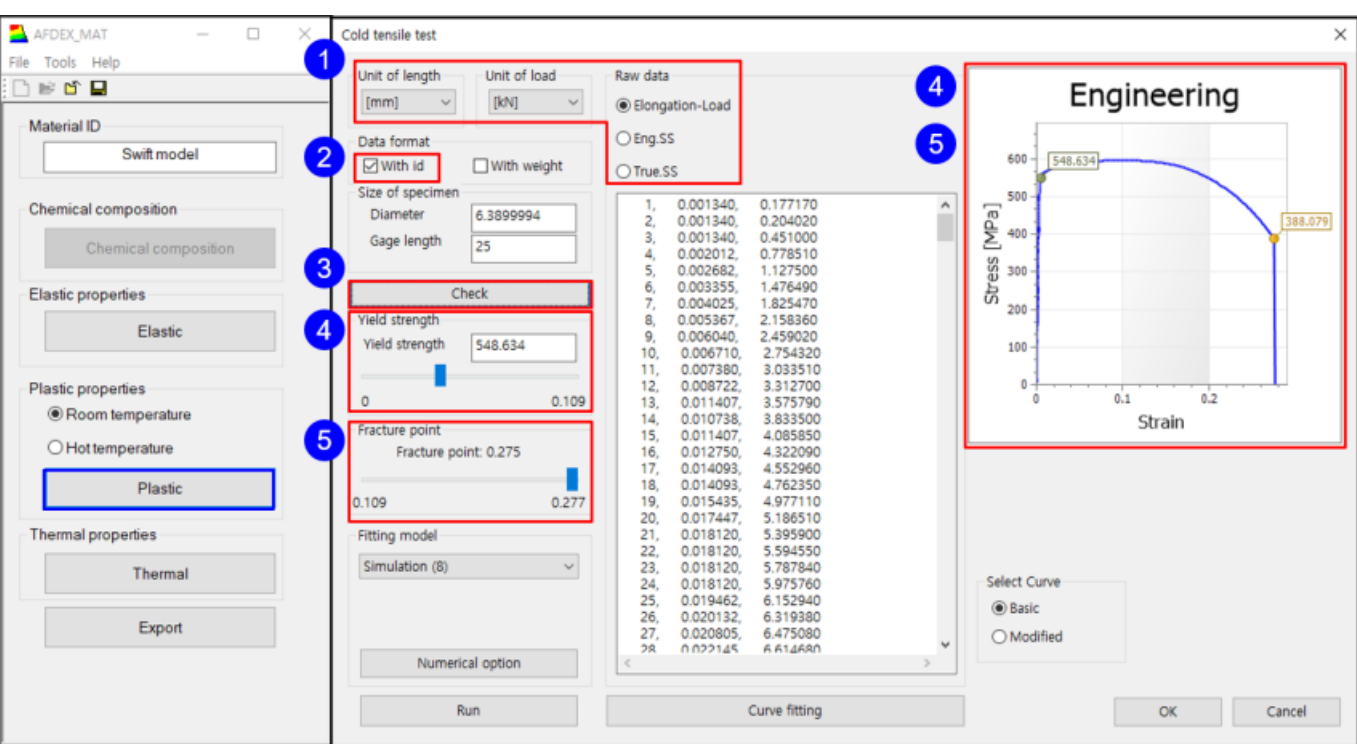


- 1.
2. (Elongation), (Load)

[

(Plastic)

]



- 1.
2. ID

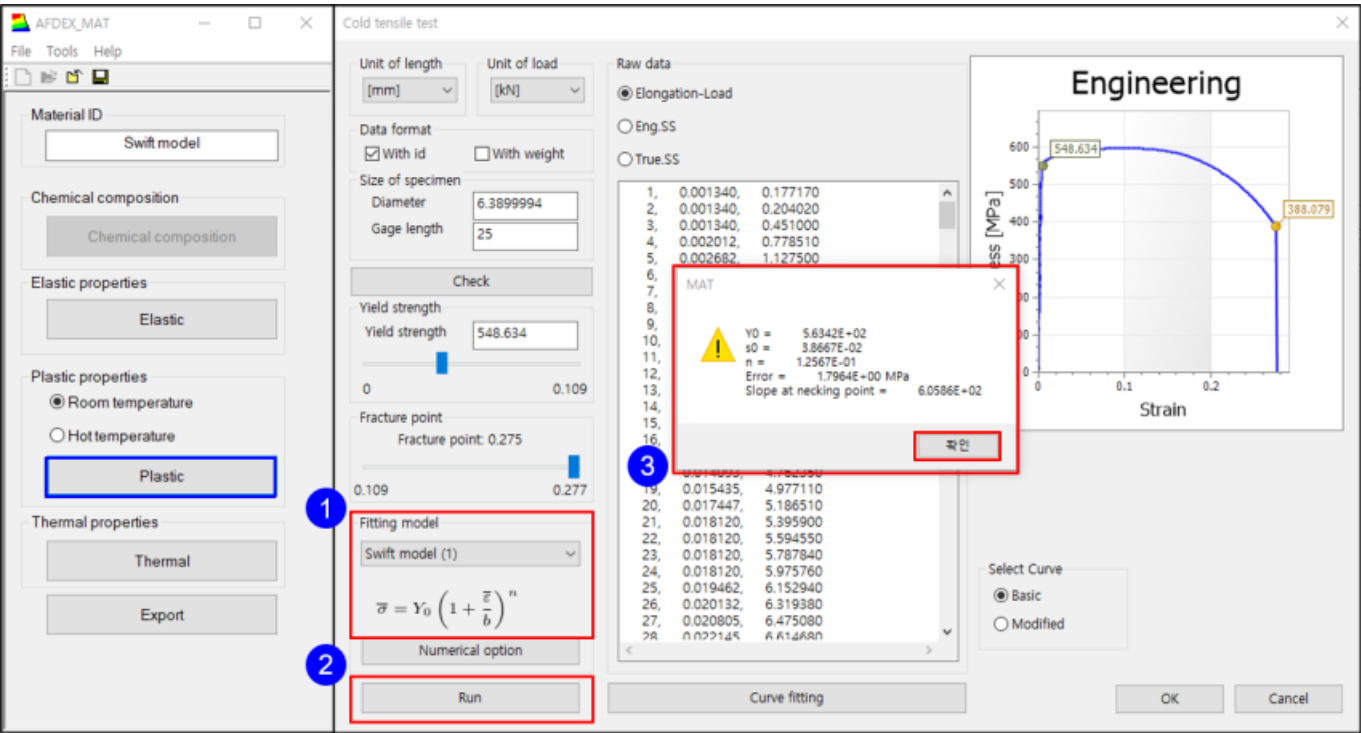
3. “Check”
4. (
- .)
5. (
- .)

[

(Plastic)

—

]



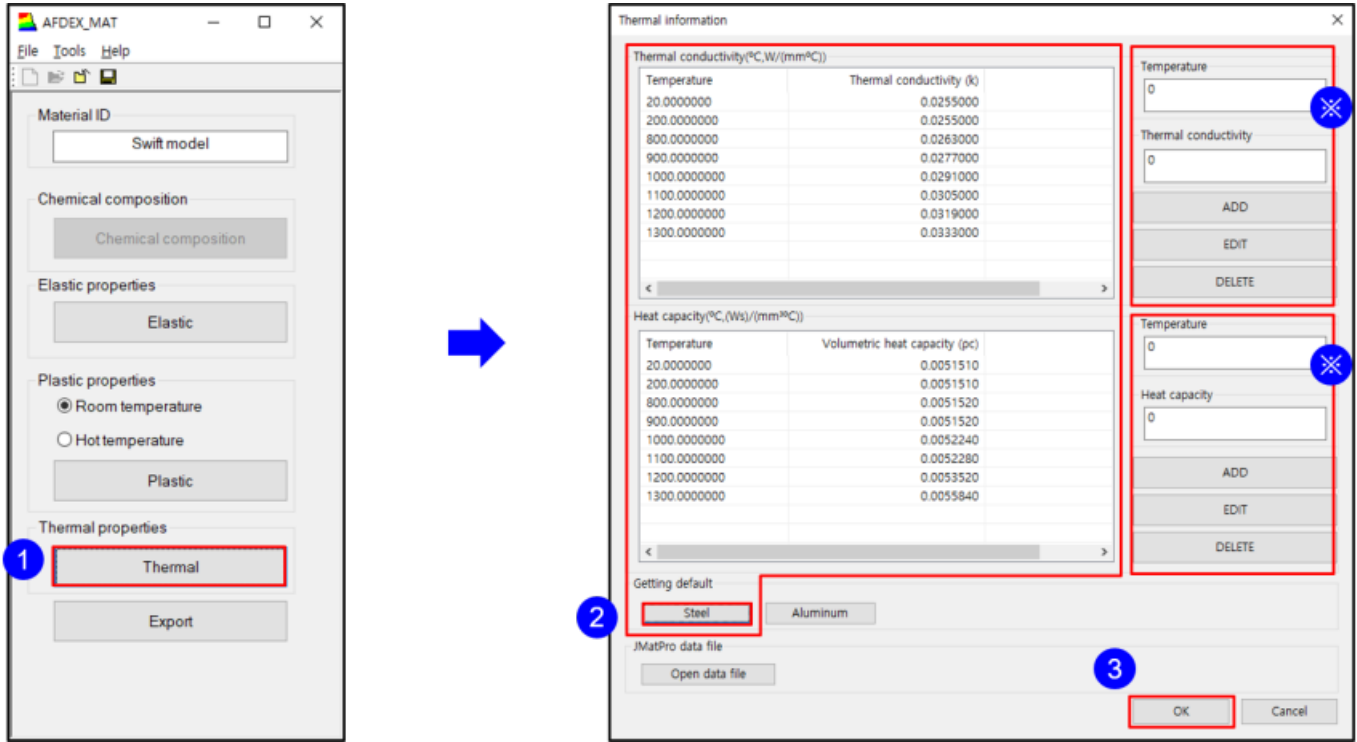
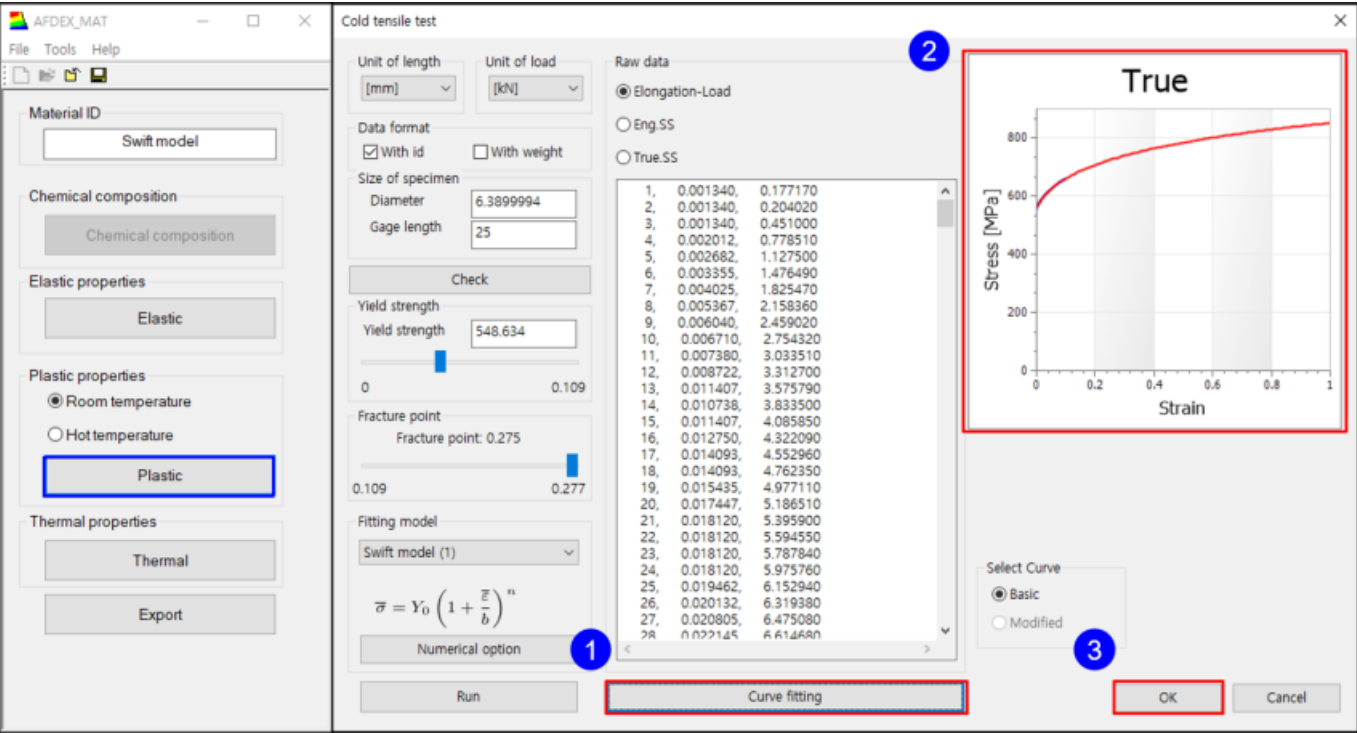
1. “Swift model (1)”
2. “Run”
3. “MAT”
- ,
- “
- ”
- .

[

(Plastic)

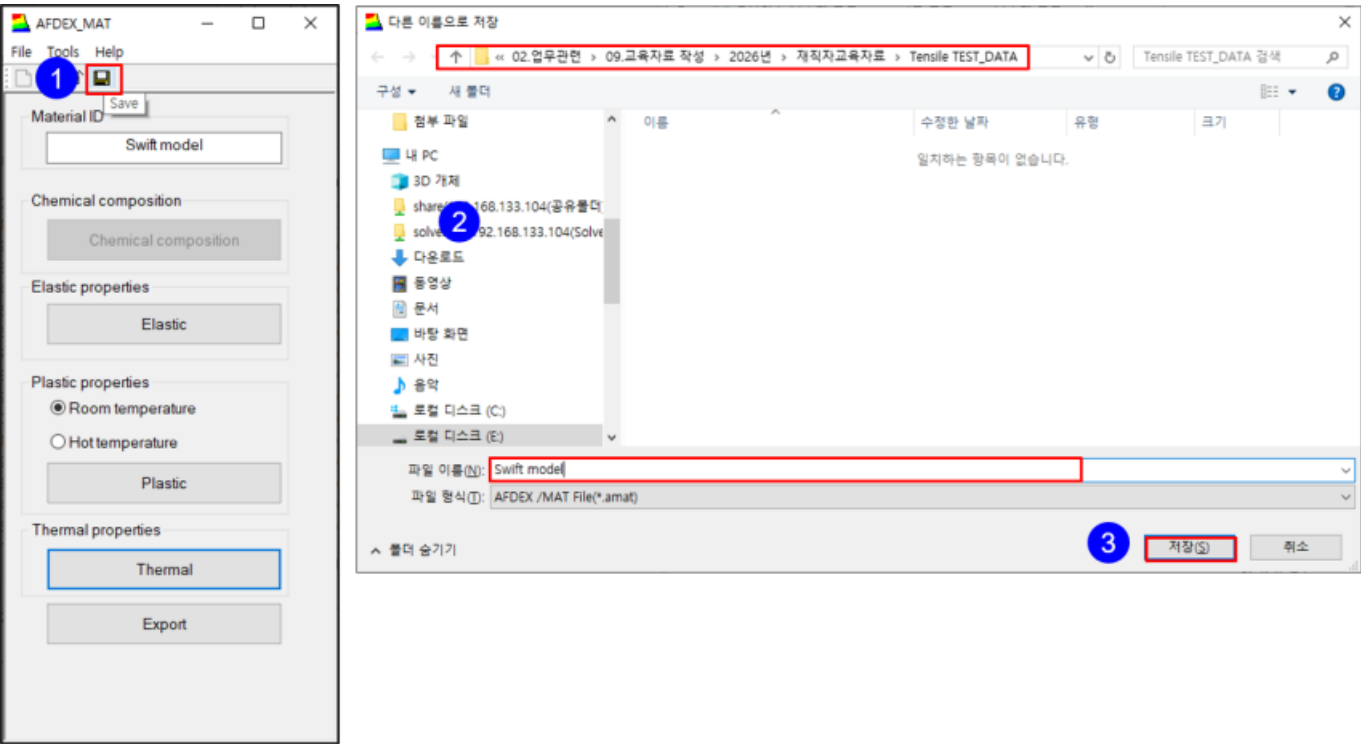
—

]



가 . , “ADD” ,

[AFDEX_MAT]



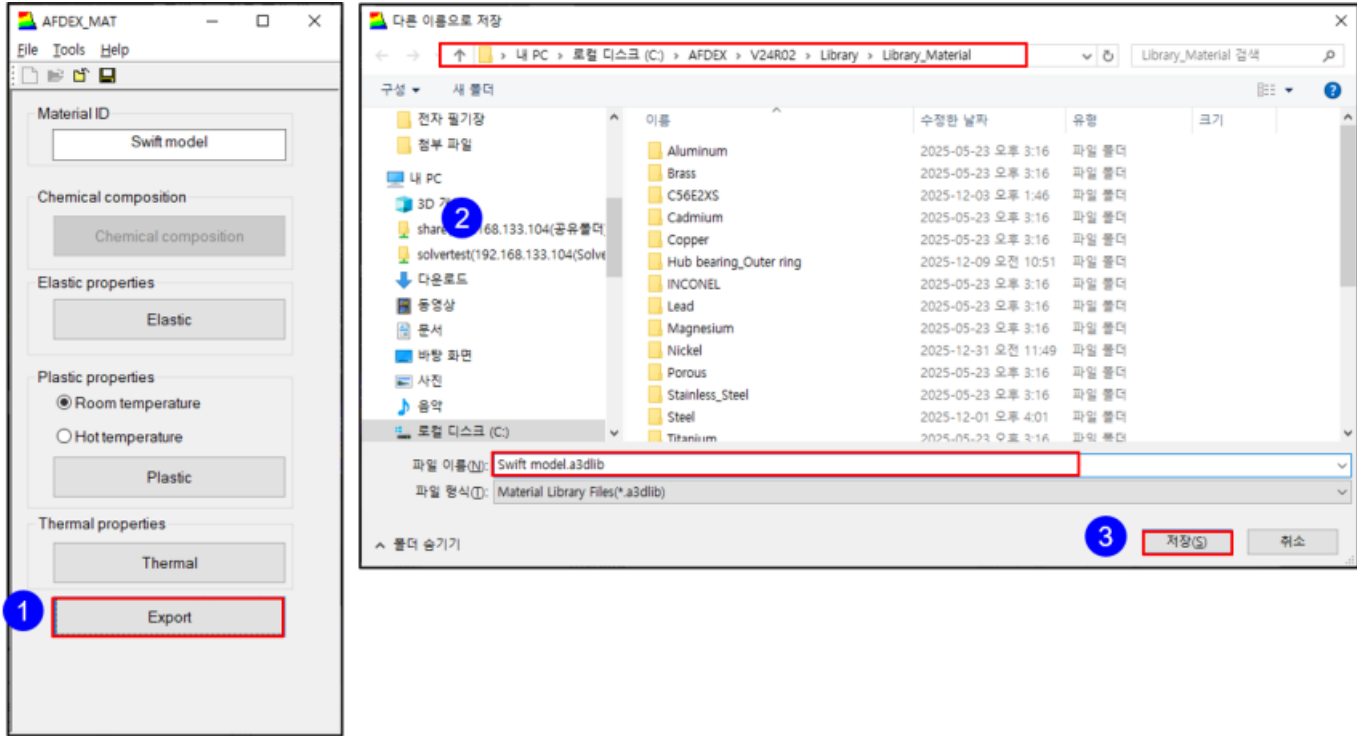
1. “Save” .
2. “ ” ,
3. “ ” .

☐※ “***.amat” AFDEX_MAT .

AFDEX_MAT “ ” ,

가 .

[]



1. “Export”
2. “ ”
3. “ ”

☐☐※ C

→ AFDEX → V24R02 → Library → Library_Material

AFDEX

’ “ : 가 ” , .

From:
<https://edu.afdex.com/> - **AFDEX**

Permanent link:
https://edu.afdex.com/doku.php?id=smjang:tensile_test_ex01

Last update: **2026/06/26 08:33**

