FIG. 1

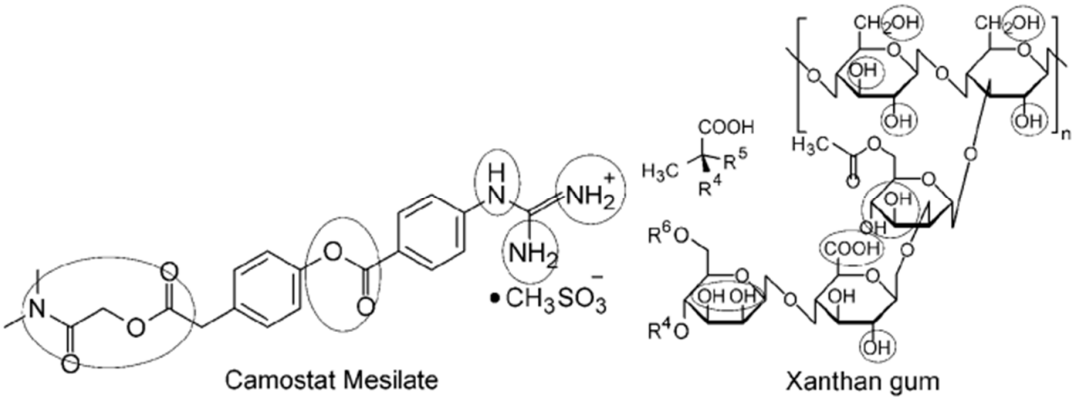

Camostat Mesilate
Xanthan gum

FIG. 2

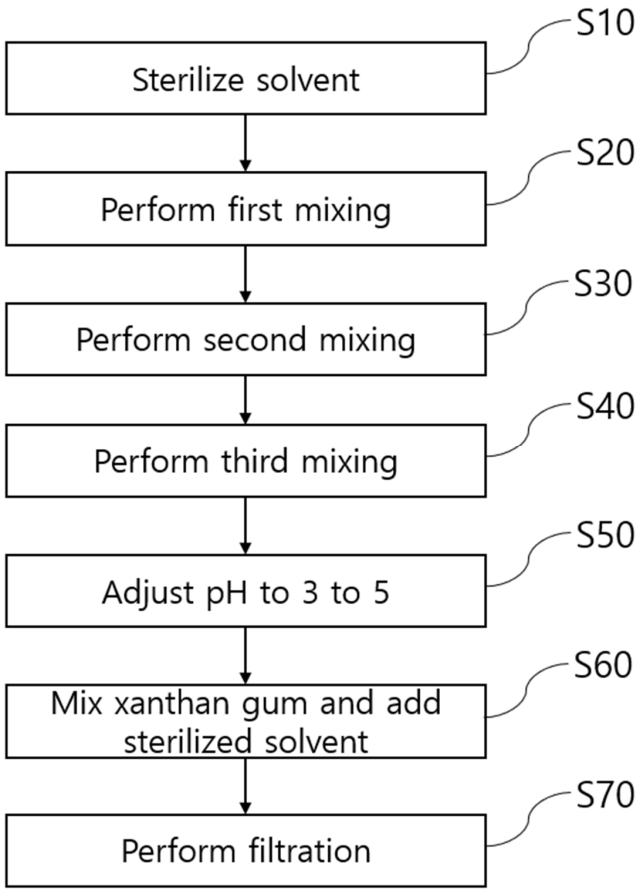
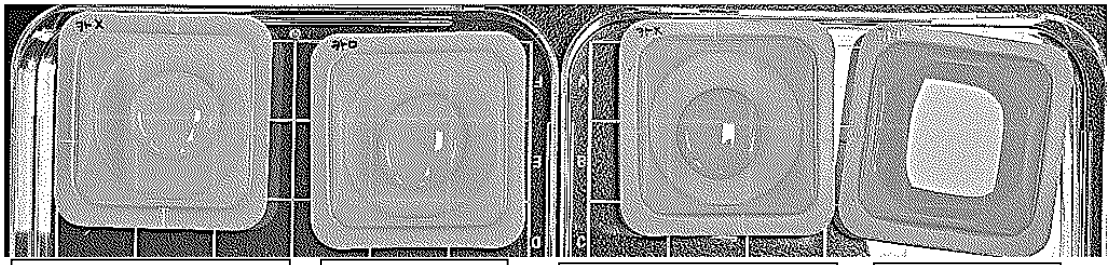
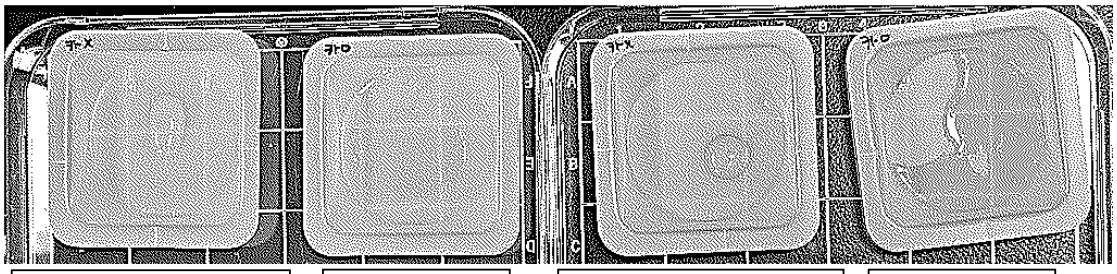

S10
Sterilize solvent
S20
Perform first mixing
S30
Perform second mixing
S40
Perform third mixing
S50
Adjust pH to 3 to 5
S60
Mix xanthan gum and add sterilized solvent
S70
Perform filtration

FIG. 3



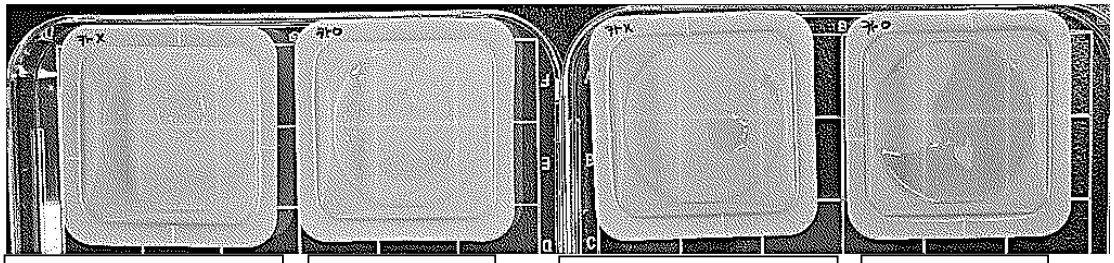
Comparative Example 1 | Example 1 | Comparative Example 1 | Example 1

FIG. 4



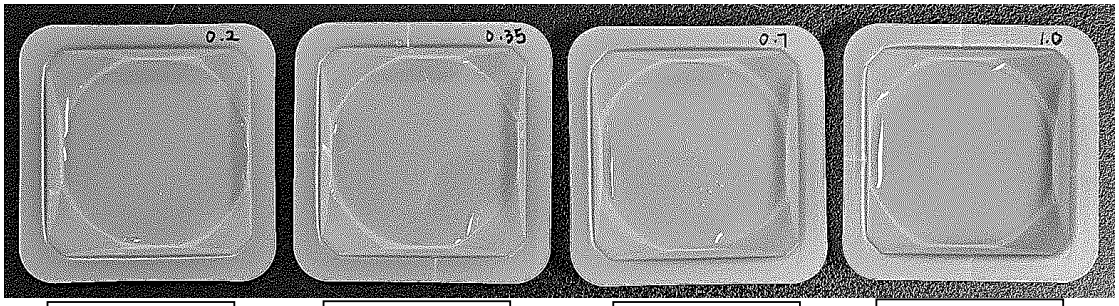
Comparative Example 1 | Example 1 | Comparative Example 1 | Example 1

FIG. 5



Comparative Example 1 | Example 1 | Comparative Example 1 | Example 1

FIG. 6



Example 2 | Example 1 | Example 3 | Example 4

FIG. 7

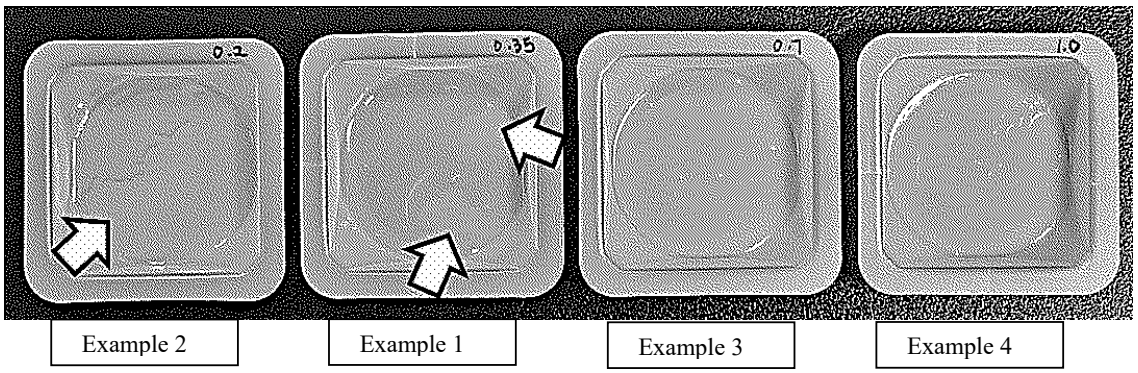

0.2
0.35
0.7
1.0
Example 2
Example 1
Example 3
Example 4

FIG. 8

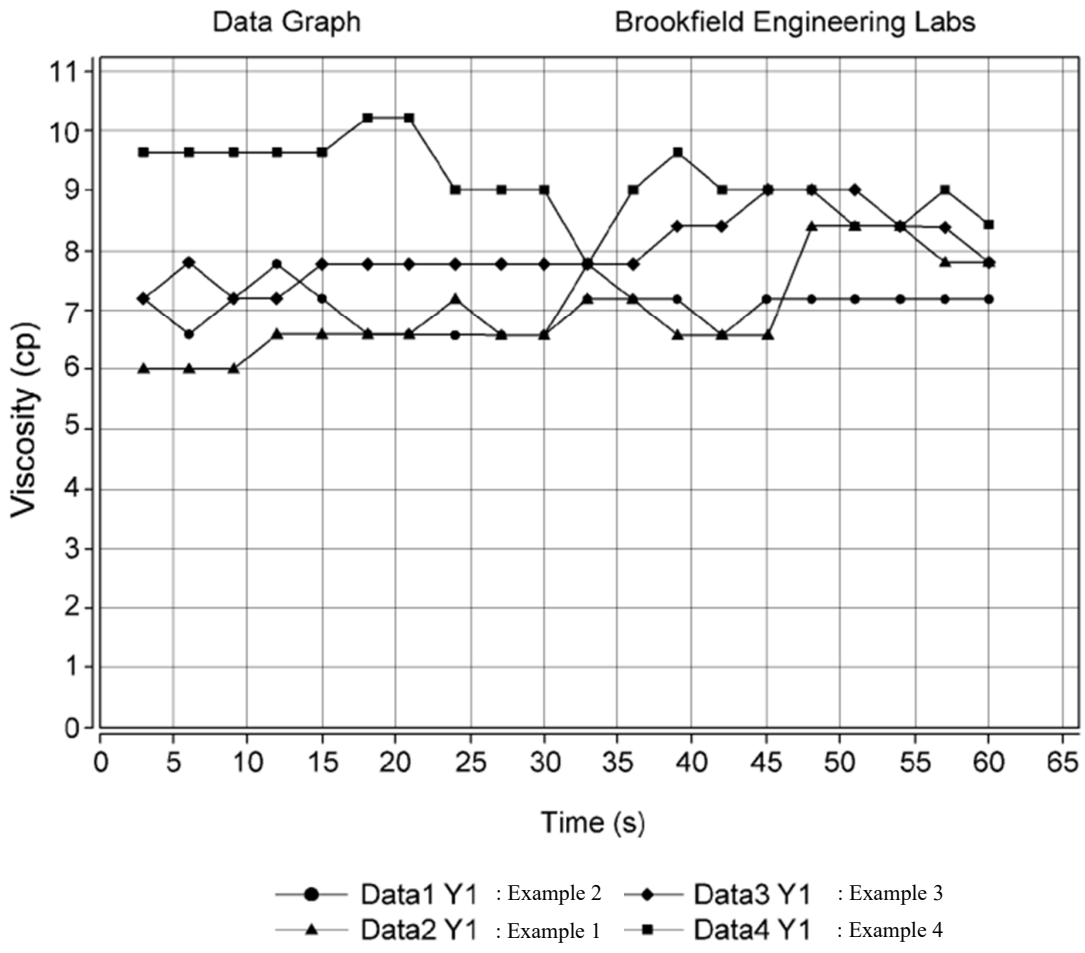

Data Graph
Brookfield Engineering Labs
Viscosity (cp)
Time (s)
0
1
2
3
4
5
6
7
8
9
10
11
0
5
10
15
20
25
30
35
40
45
50
55
60
65
Data1 Y1 : Example 2
Data3 Y1 : Example 3
Data2 Y1 : Example 1
Data4 Y1 : Example 4

FIG. 9

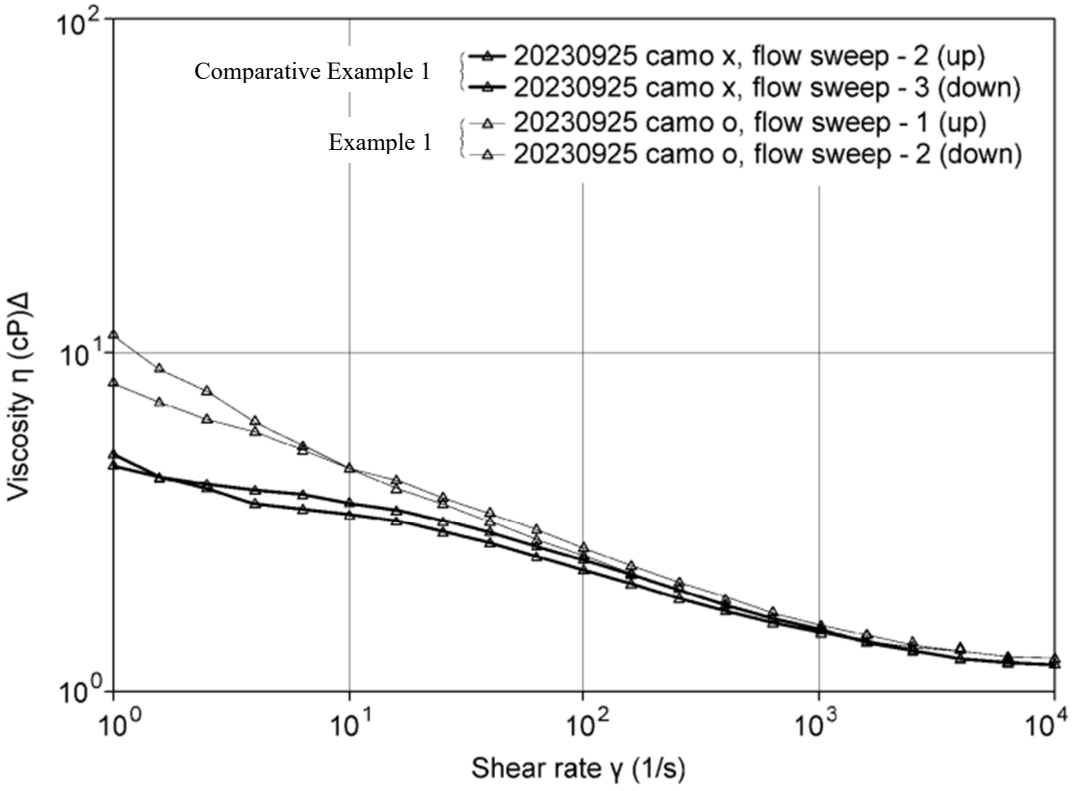

Comparative Example 1
20230925 camo x, flow sweep - 2 (up)
20230925 camo x, flow sweep - 3 (down)
Example 1
20230925 camo o, flow sweep - 1 (up)
20230925 camo o, flow sweep - 2 (down)
Viscosity η (cP)Δ
Shear rate γ (1/s)

FIG. 10

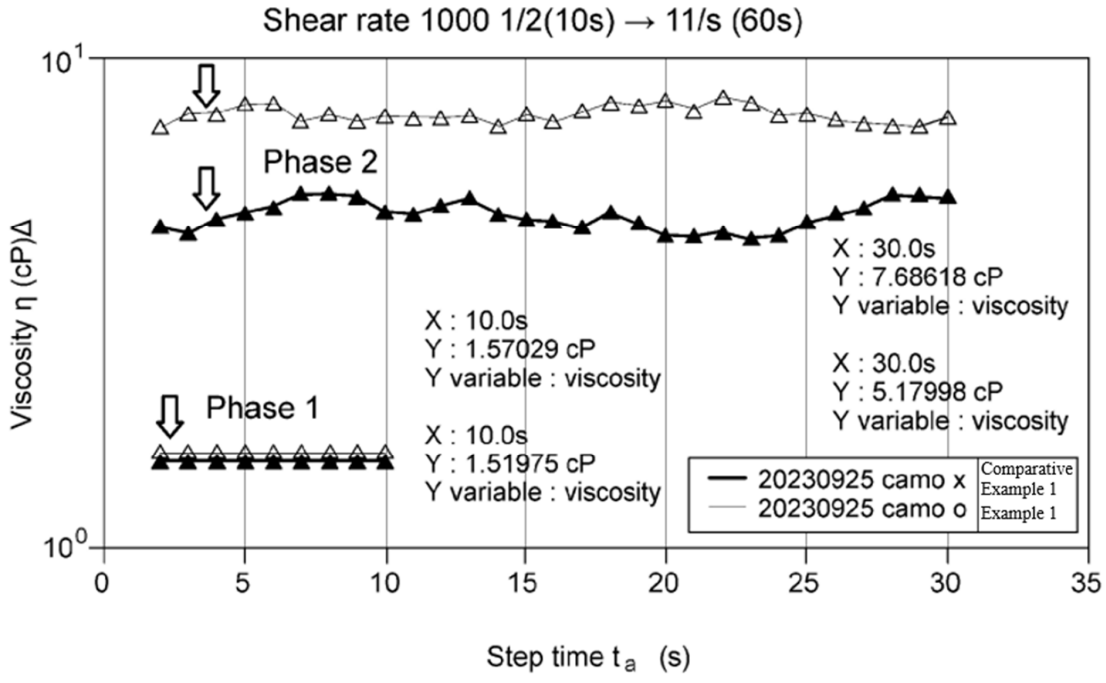

Shear rate 1000 1/2(10s) → 11/s (60s)
Phase 2
Phase 1
X : 30.0s
Y : 7.68618 cP
Y variable : viscosity
X : 10.0s
Y : 1.57029 cP
Y variable : viscosity
X : 30.0s
Y : 5.17998 cP
Y variable : viscosity
X : 10.0s
Y : 1.51975 cP
Y variable : viscosity
20230925 camo x
20230925 camo o
Comparative Example 1
Example 1
Viscosity η (cP)Δ
Step time t a (s)

FIG. 11

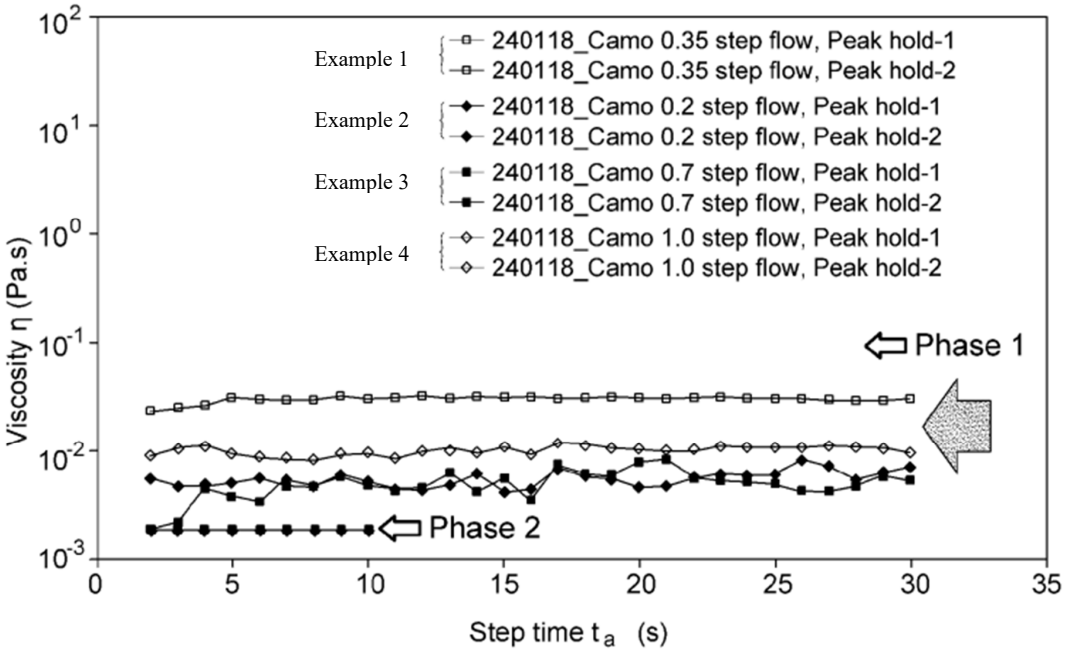

Example 1
240118_Camo 0.35 step flow, Peak hold-1
240118_Camo 0.35 step flow, Peak hold-2
Example 2
240118_Camo 0.2 step flow, Peak hold-1
240118_Camo 0.2 step flow, Peak hold-2
Example 3
240118_Camo 0.7 step flow, Peak hold-1
240118_Camo 0.7 step flow, Peak hold-2
Example 4
240118_Camo 1.0 step flow, Peak hold-1
240118_Camo 1.0 step flow, Peak hold-2
Phase 1
Phase 2
Viscosity η (Pa.s)
Step time t a (s)

FIG. 12

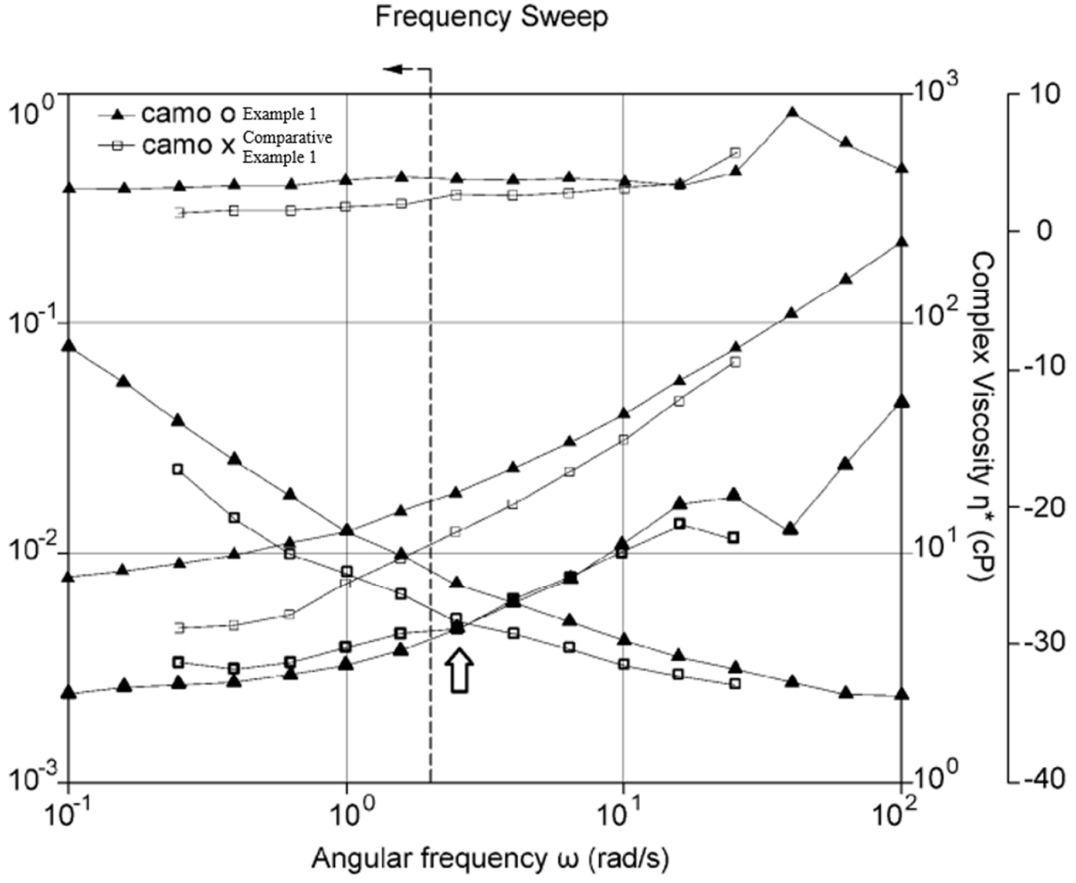

Frequency Sweep
camo o Example 1
camo x Comparative Example 1
Angular frequency ω (rad/s)
Complex Viscosity η* (cP)

FIG. 13

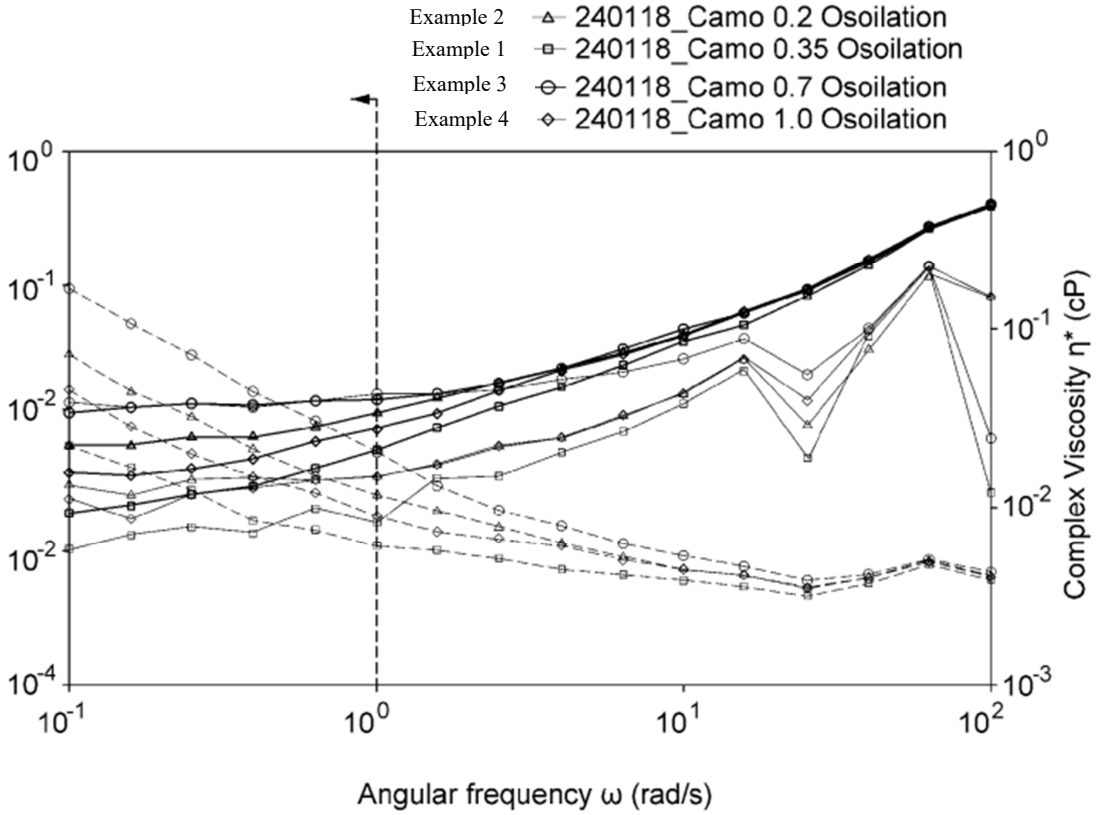
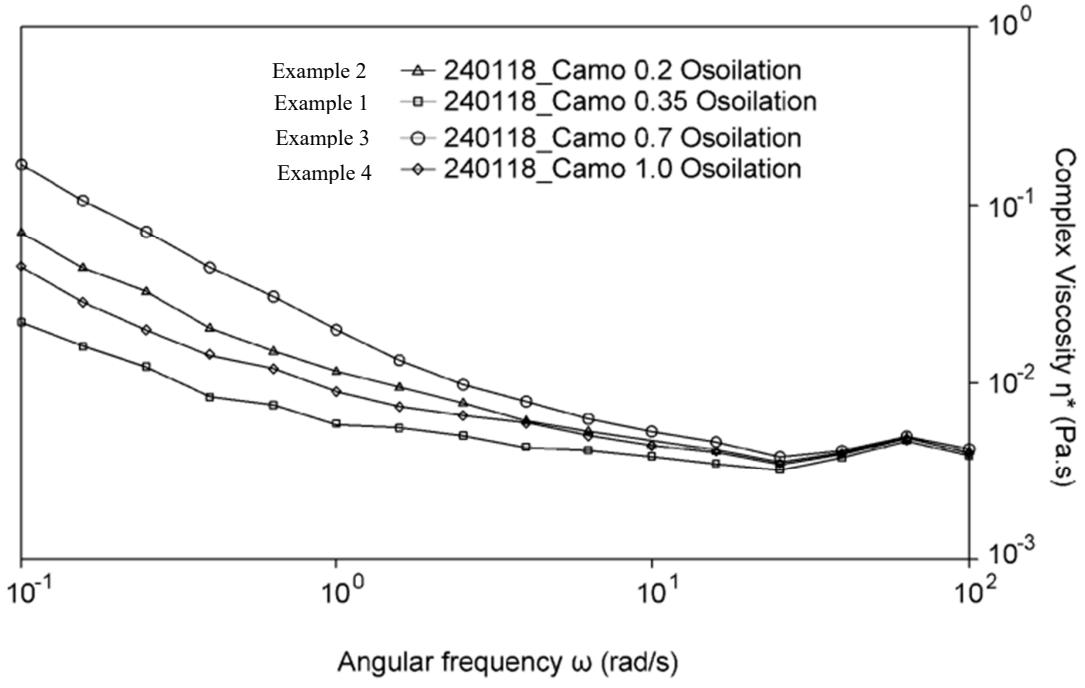

Example 2
240118_Camo 0.2 Osoilation
Example 1
240118_Camo 0.35 Osoilation
Example 3
240118_Camo 0.7 Osoilation
Example 4
240118_Camo 1.0 Osoilation
Complex Viscosity η* (cP)
Angular frequency ω (rad/s)

FIG. 14


Example 2
240118_Camo 0.2 Osoilation
Example 1
240118_Camo 0.35 Osoilation
Example 3
240118_Camo 0.7 Osoilation
Example 4
240118_Camo 1.0 Osoilation
Complex Viscosity η* (Pa·s)
Angular frequency ω (rad/s)