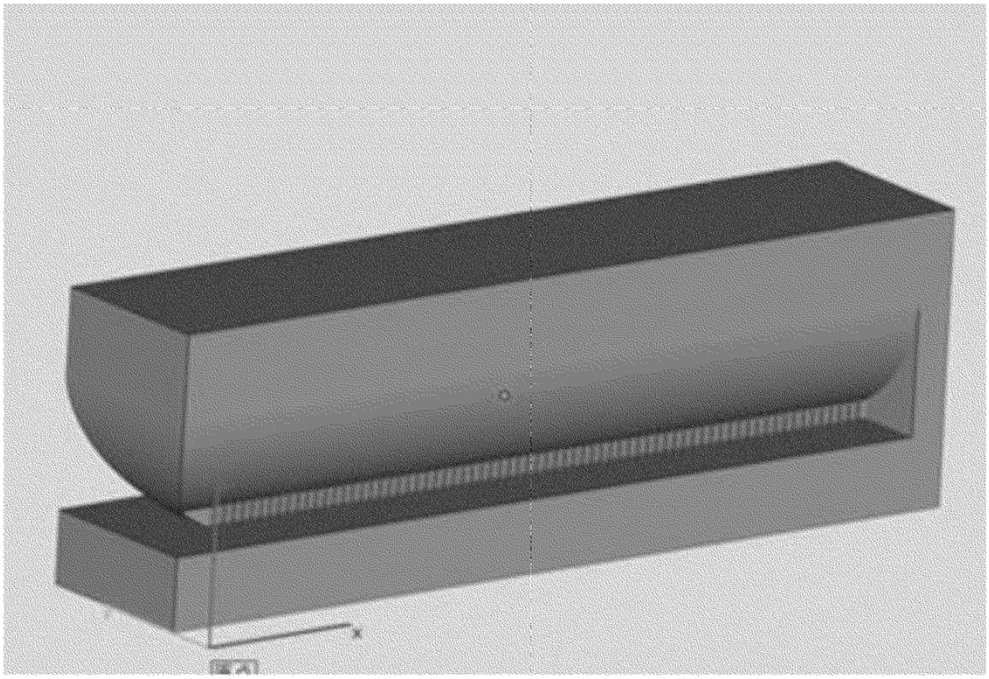


FIG. 1

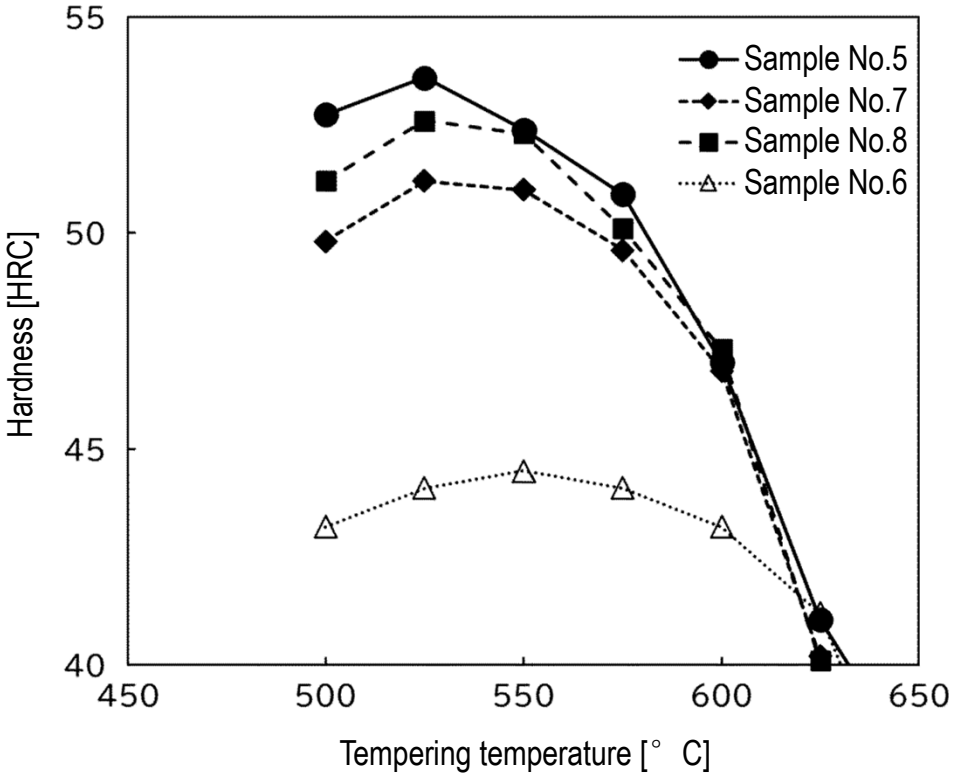

55
50
45
40
Hardness [HRC]
450
500
550
600
650
Tempering temperature [° C]
Sample No.5
Sample No.7
Sample No.8
Sample No.6

FIG. 2

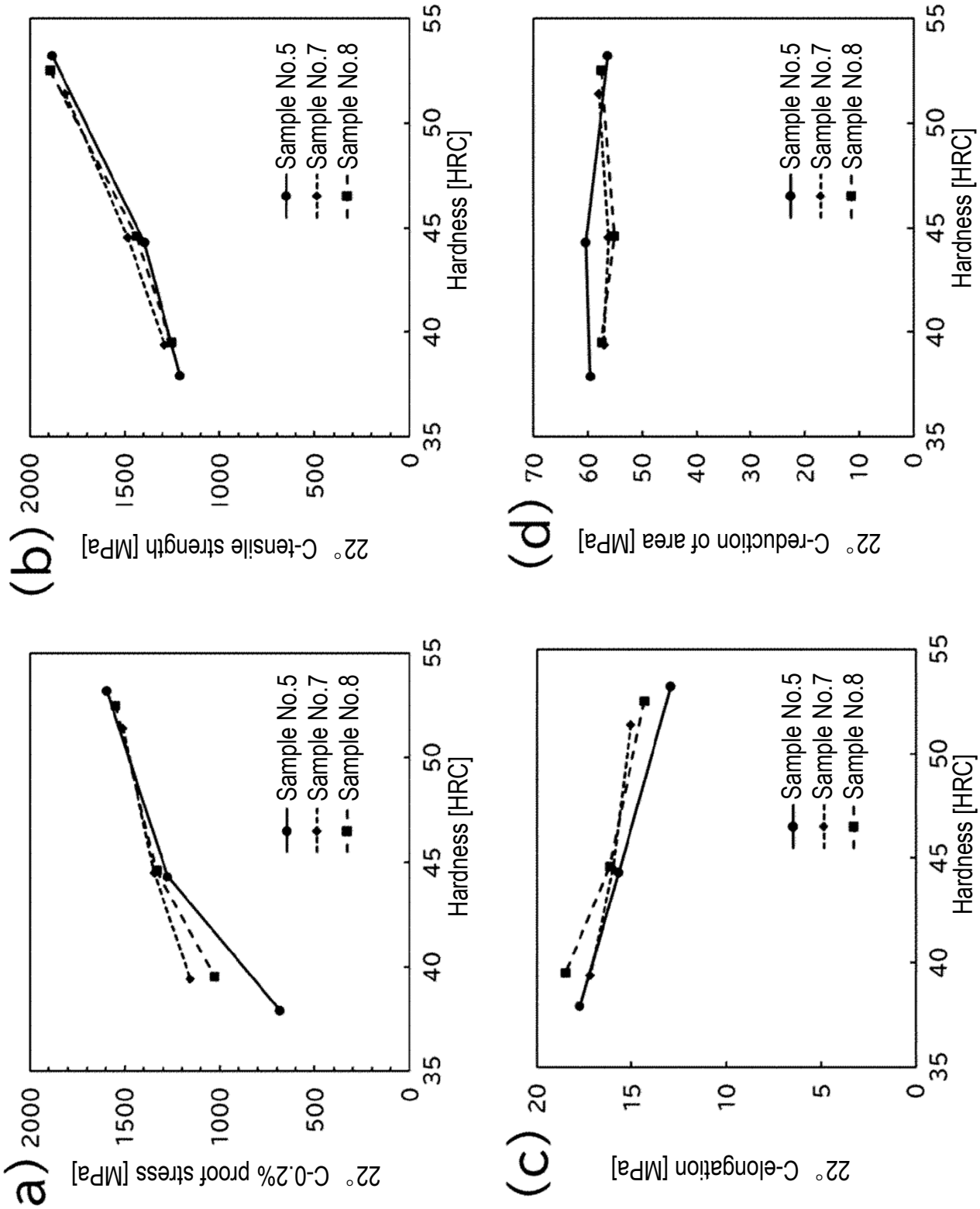

(a)
22° C-0.2% proof stress [MPa]
(b)
22° C-tensile strength [MPa]
(c)
22° C-elongation [MPa]
(d)
22° C-reduction of area [MPa]
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8

FIG. 3

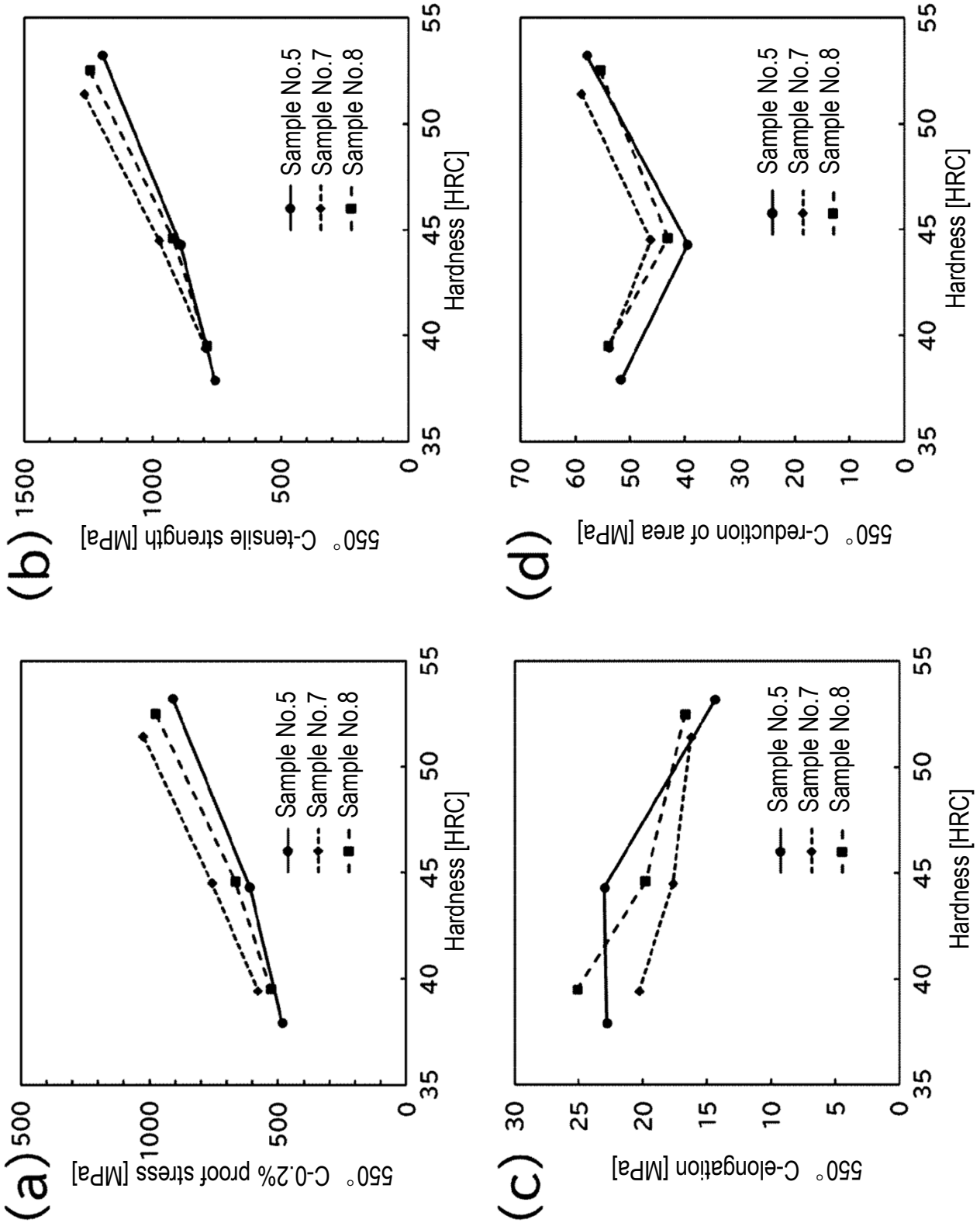

(a)
550° C-0.2% proof stress [MPa]
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8
(b)
550° C-tensile strength [MPa]
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8
(c)
550° C-elongation [MPa]
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8
(d)
550° C-reduction of area [MPa]
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8

FIG. 4

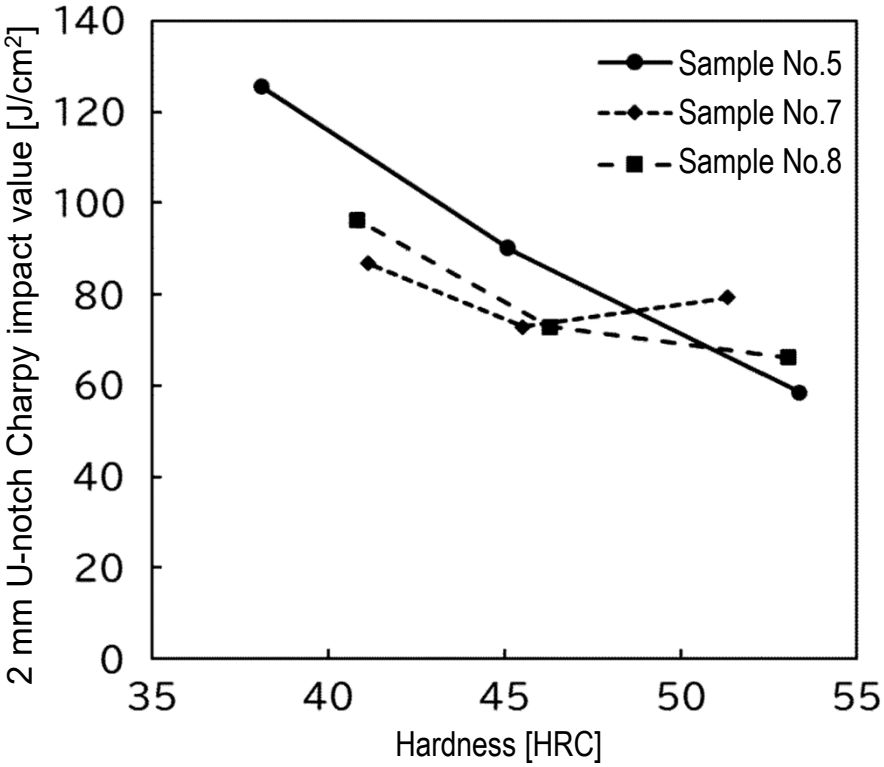

2 mm U-notch Charpy impact value [J/cm2]
140
120
100
80
60
40
20
0
35
40
45
50
55
Hardness [HRC]
Sample No.5
Sample No.7
Sample No.8

FIG. 5

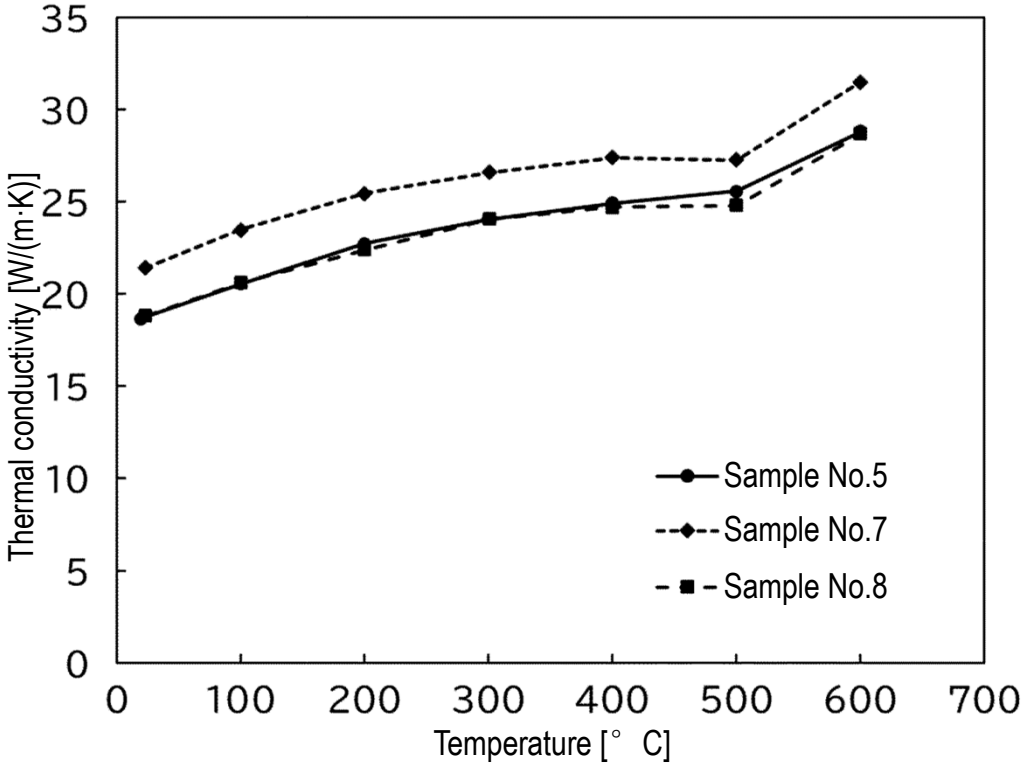

Thermal conductivity [W/(m·K)]
35
30
25
20
15
10
5
0
0
100
200
300
400
500
600
700
Temperature [° C]
Sample No.5
Sample No.7
Sample No.8

FIG. 6